

EXISTING AND REMOVALS

PROPOSED

PAVEMENT MARKING KEY

1ST DIGIT WIDTH
4", 8", ETC.

2ND DIGIT PATTERN
S - SOLID
B - BROKEN
D - DOTTED/DOUBLE

3RD DIGIT COLOR
W - WHITE
Y - YELLOW
B - BLACK

EXAMPLE: 4SW = 4" SOLID LINE WHITE-POLY PREFORM

* SEE PAVEMENT MARKING DETAIL SHEETS 222-225

TRIANGLE - PAINT

SQUARE - POLY PREFORM (GROUND IN)

PAVEMENT MESSAGE - EPOXY (BIKE SYMBOL WITH BLVD)*

PAVEMENT MESSAGE - PAINT (SHARED LANE MARKING)*

PAVEMENT MESSAGE - PAINT (BIKE SYMBOL WITH ARROW)*

PAVEMENT MESSAGE - PAINT (BIKE DETECTOR - PAVEMENT MARKING SPECIAL 3)*

PAVEMENT MARKING - EPOXY (SPEED HUMP - PAVEMENT MARKING SPECIAL 4)*

EXISTING PAVEMENT MARKINGS

NOTE:

ON 5TH STREET SE BETWEEN 8TH AVE SE AND 2ND AVE SE THE EXISTING 4" YELLOW STRIPE SHALL BE REPAINTED. AN ADDITIONAL 4" YELLOW STRIPE SHALL BE INSTALLED CREATING A DOUBLE YELLOW STRIPE. ADDITIONALLY, THE EXISTING EASTBOUND BIKE LANE PAVEMENT MARKINGS ARE ALMOST COMPLETELY WORN OFF. THE CONTRACTOR SHALL INSTALL NEW BIKE LANE PAVEMENT MARKINGS AS SHOWN ON THESE BLOCKS.

SPECIFIC NOTES:

- 1 FURNISH & INSTALL
- 2 REMOVE
- 3 SALVAGE & REINSTALL

NOTE: TYPE C & D SIGNS WILL BE F&I BY THE CITY OF MINNEAPOLIS.

DESIGN TEAM	0	03/30/10	
DRAWN BY: KAS			
DESIGNER: KAB			
CHECKED BY: MRA			
NO.	BY	DATE	REVISIONS

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Certified By: *Michael R. Anderson* Lic. No. 42828

Printed Name: Michael R. Anderson Date: 06/18/10



MINNEAPOLIS, MINNESOTA

S.P.141-091-020

5TH STREET NORTHEAST
SIGNING AND PAVEMENT MARKING PLAN
BIKE LANE IMPROVEMENTS

FILE NO.	174
109-0032	
1 OF 17	259

EXISTING AND REMOVALS

PROPOSED

PAVEMENT MARKING KEY

1ST DIGIT WIDTH 4", 8", ETC.

2ND DIGIT PATTERN S - SOLID B - BROKEN D - DOTTED/DOUBLE

3RD DIGIT COLOR W - WHITE Y - YELLOW B - BLACK

EXAMPLE: 4SW = 4" SOLID LINE WHITE-POLY PREFORM

* SEE PAVEMENT MARKING DETAIL SHEETS 222-225

TRIANGLE - PAINT

SQUARE - POLY PREFORM (GROUND IN)

PAVEMENT MESSAGE - EPOXY (BIKE SYMBOL WITH BLVD)*

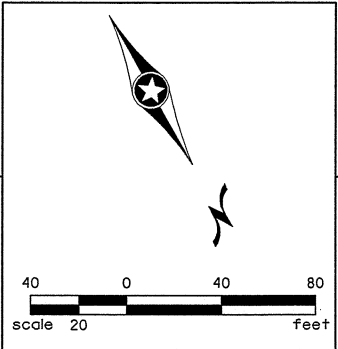
PAVEMENT MESSAGE - PAINT (SHARED LANE MARKING)*

PAVEMENT MESSAGE - PAINT (BIKE SYMBOL WITH ARROW)*

PAVEMENT MESSAGE - PAINT (BIKE DETECTOR - PAVEMENT MARKING SPECIAL 3)*

PAVEMENT MARKING - EPOXY (SPEED HUMP - PAVEMENT MARKING SPECIAL 4)*

EXISTING PAVEMENT MARKINGS



- SPECIFIC NOTES:
- ① FURNISH & INSTALL
 - ② REMOVE
 - ③ SALVAGE & REINSTALL

NOTE: TYPE C & D SIGNS WILL BE F&I BY THE CITY OF MINNEAPOLIS.

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MINNEAPOLIS, MINNESOTA

S.P. 141-091-020

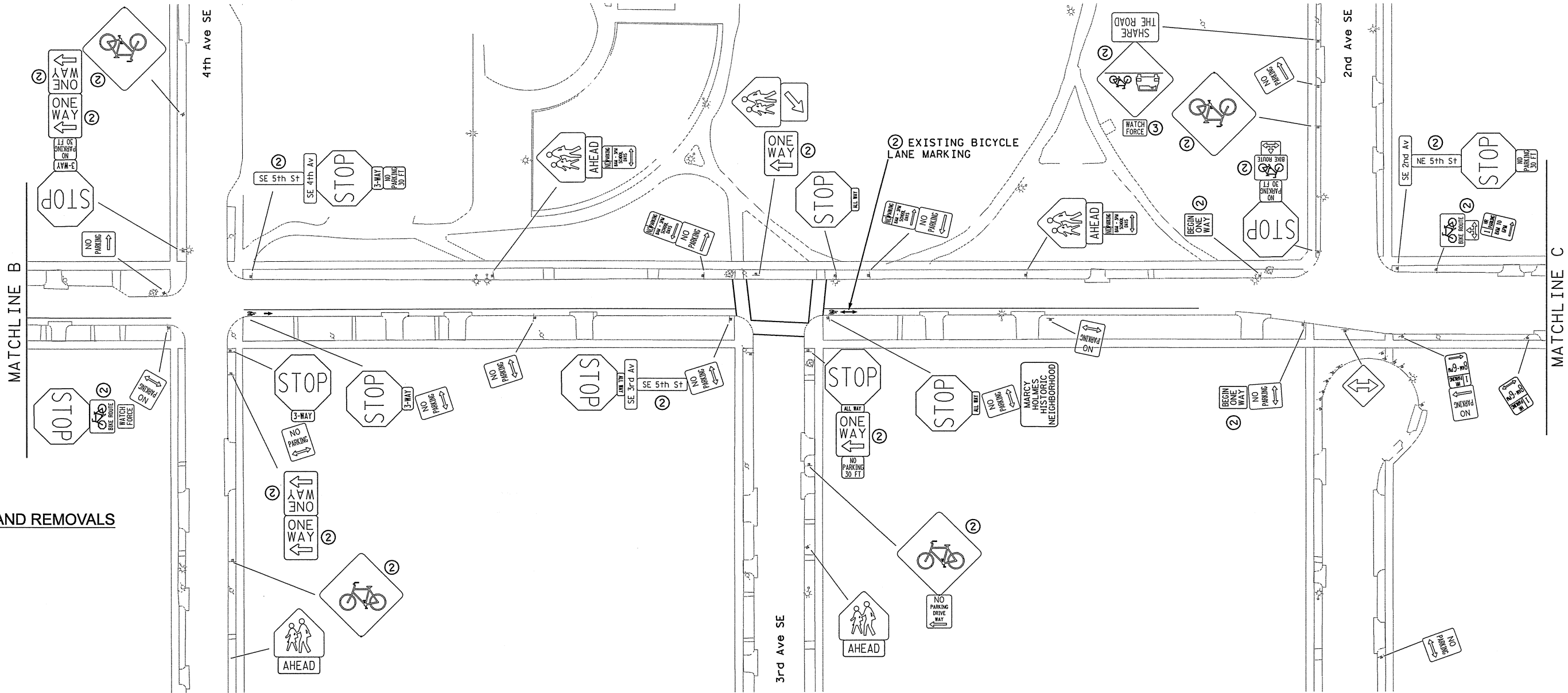
5TH STREET NORTHEAST

SIGNING AND PAVEMENT MARKING PLAN

BIKE LANE IMPROVEMENTS

FILE NO.	175
109-0032	
2 OF 17	259

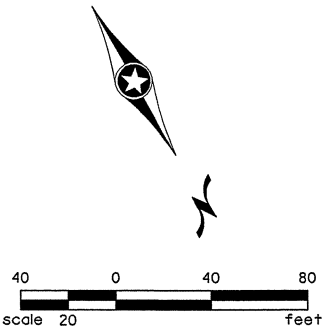
EXISTING AND REMOVALS



SPECIFIC NOTES:

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- ② REMOVE
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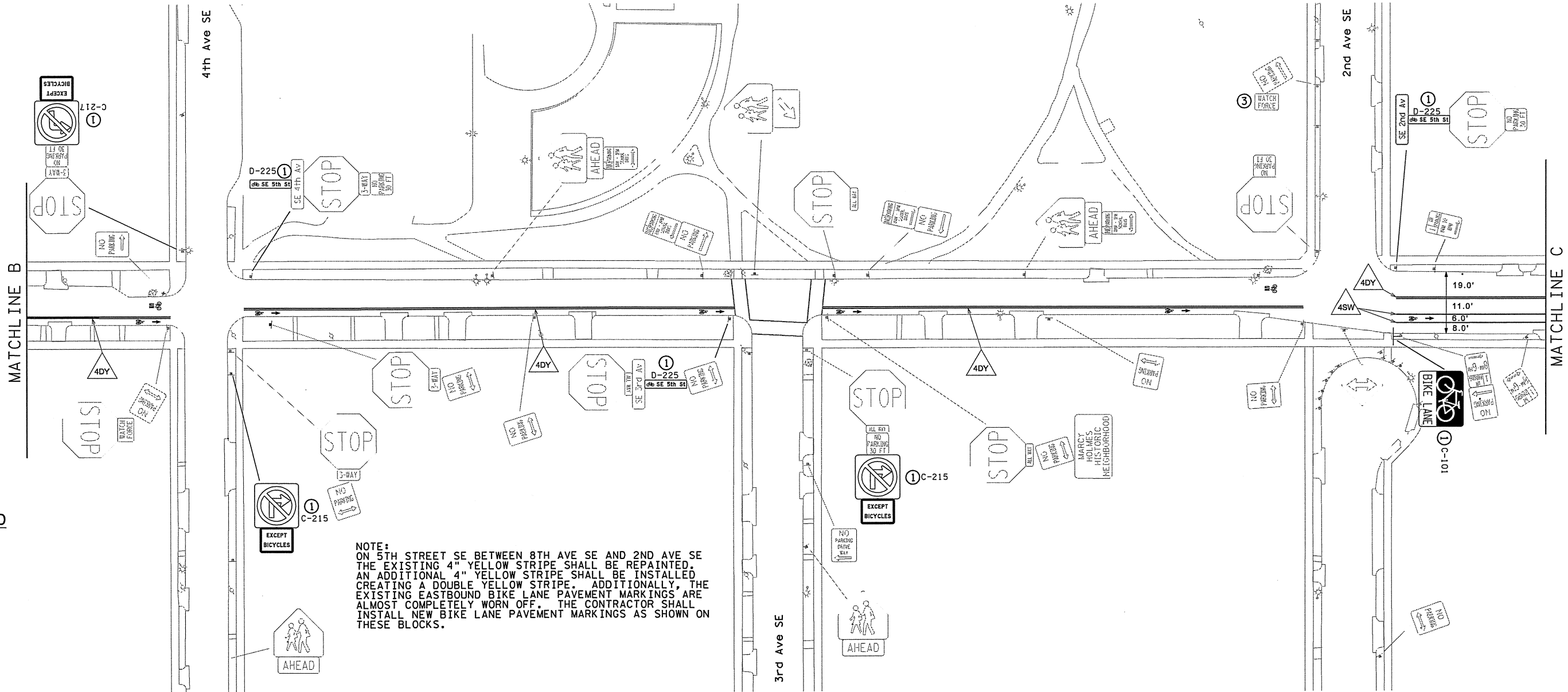


MINNEAPOLIS,
MINNESOTA
S.P. 141-091-020

5TH STREET NORTHEAST
SIGNING AND PAVEMENT MARKING PLAN
BIKE LANE IMPROVEMENTS

FILE NO. 109-0032	176
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PROPOSED



PAVEMENT MARKING KEY

1ST DIGIT WIDTH 4", 8", ETC.	2ND DIGIT PATTERN S - SOLID B - BROKEN D - DOTTED/DOUBLE	3RD DIGIT COLOR W - WHITE Y - YELLOW B - BLACK
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EXAMPLE: 4SW = 4" SOLID LINE WHITE-POLY PREFORM

* SEE PAVEMENT MARKING DETAIL SHEETS 222-225

TRIANGLE - PAINT

SQUARE - POLY PREFORM (GROUND IN)

PAVEMENT MESSAGE - EPOXY (BIKE SYMBOL WITH BLVD)*

PAVEMENT MESSAGE - PAINT (SHARED LANE MARKING)*

PAVEMENT MESSAGE - PAINT (BIKE SYMBOL WITH ARROW)*

PAVEMENT MESSAGE - PAINT (BIKE DETECTOR - PAVEMENT MARKING SPECIAL 3)*

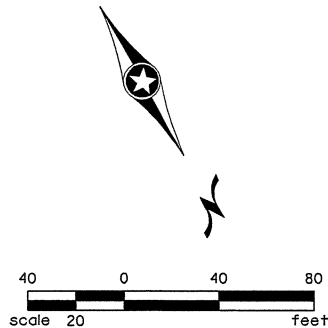
PAVEMENT MARKING - EPOXY (SPEED HUMP - PAVEMENT MARKING SPECIAL 4)*

EXISTING PAVEMENT MARKINGS

SPECIFIC NOTES:

- ① FURNISH & INSTALL
- ② REMOVE
- ③ SALVAGE & REINSTALL

NOTE: TYPE C & D SIGNS WILL BE F&I BY THE CITY OF MINNEAPOLIS.

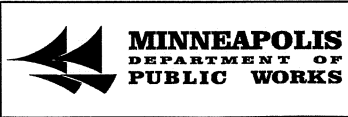


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S.P. 141-091-020

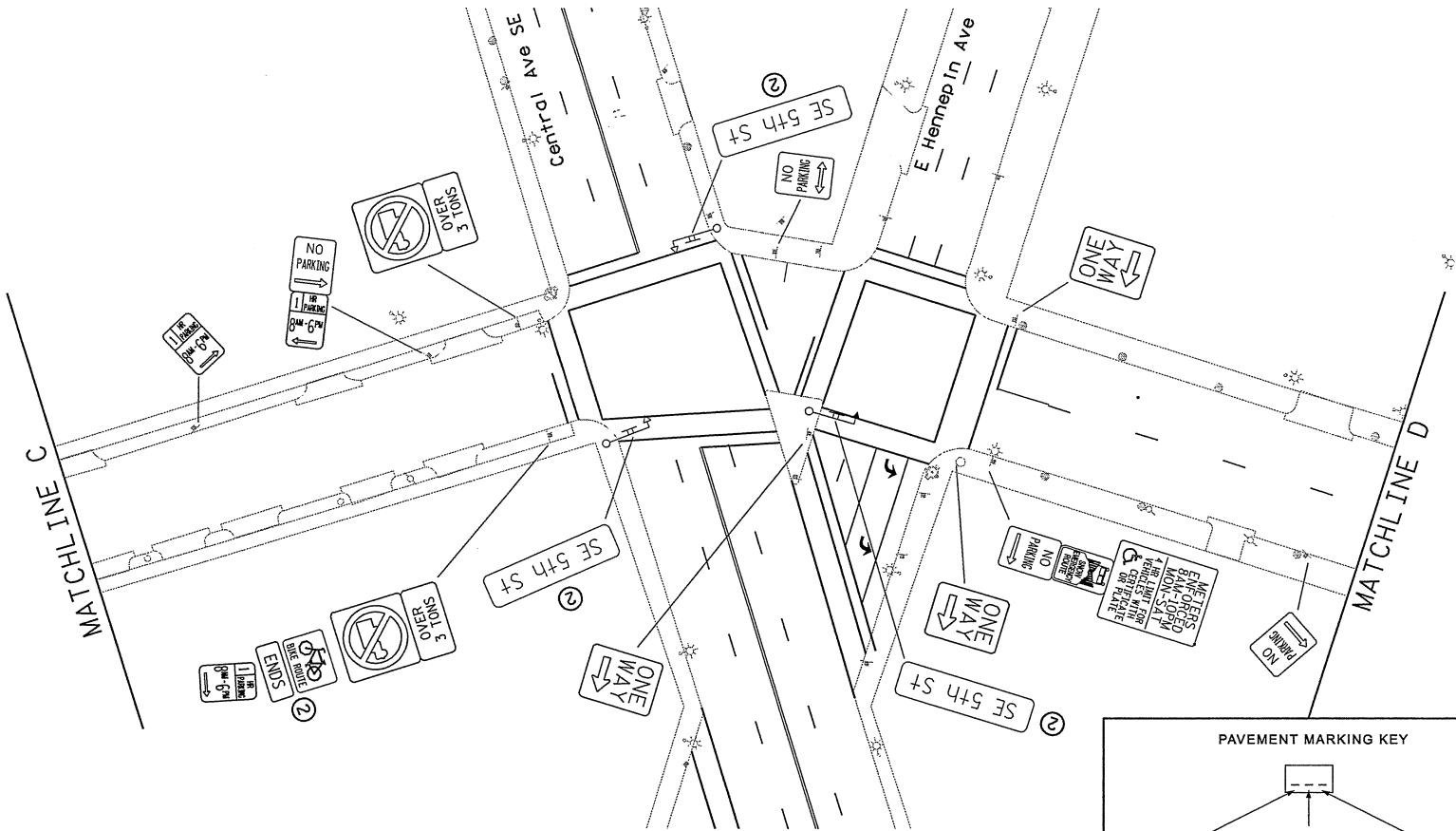
5TH STREET NORTHEAST

SIGNING AND PAVEMENT MARKING PLAN

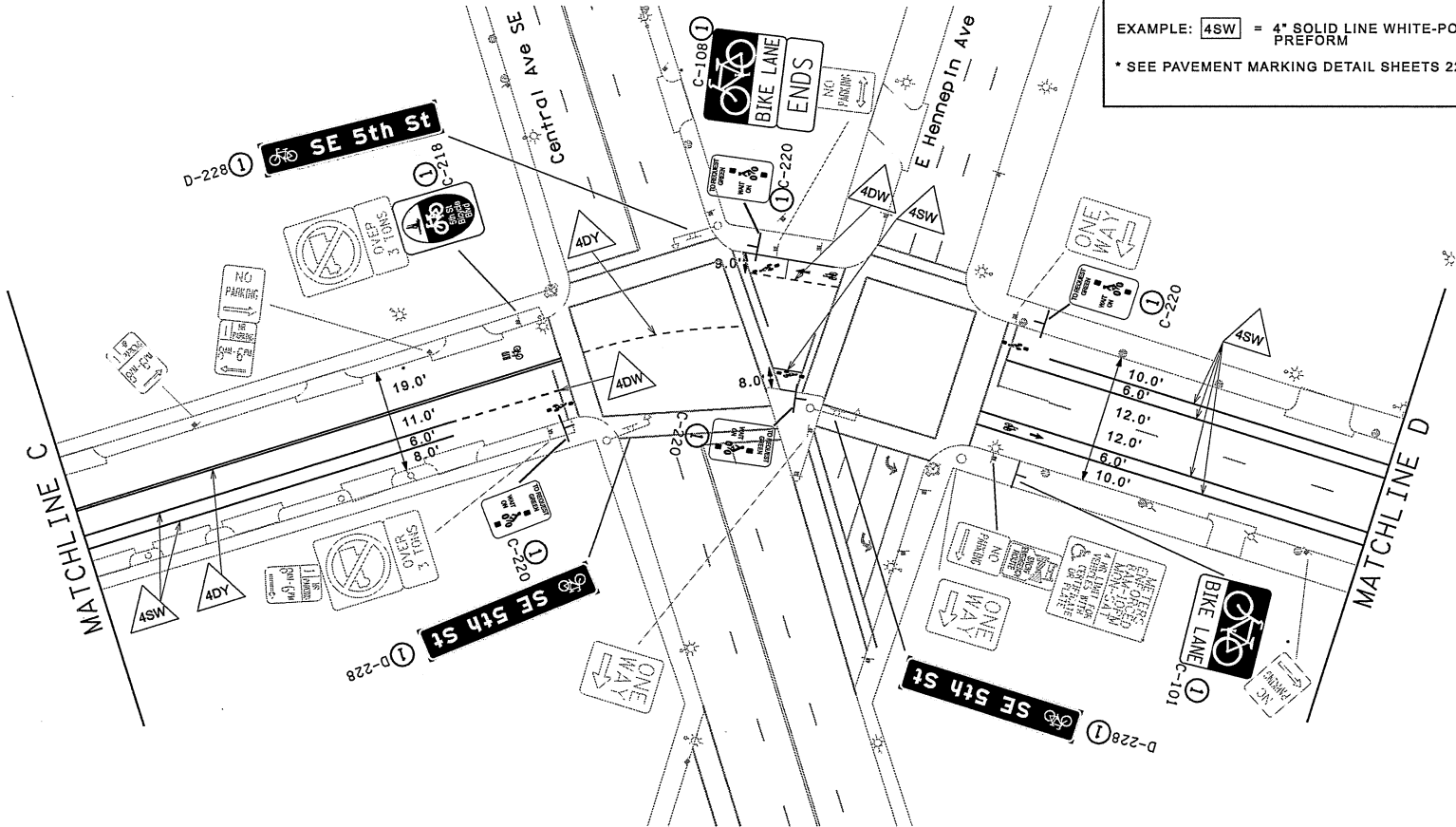
BIKE LANE IMPROVEMENTS

FILE NO.	109-0032	177
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EXISTING AND REMOVALS



PROPOSED



PAVEMENT MARKING KEY

1ST DIGIT
WIDTH
4", 8", ETC.

2ND DIGIT
PATTERN
S - SOLID
B - BROKEN
D - DOTTED/DOUBLE

3RD DIGIT
COLOR
W - WHITE
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EXAMPLE: 4SW = 4" SOLID LINE WHITE-POLY PREFORM

* SEE PAVEMENT MARKING DETAIL SHEETS 222-225

TRIANGLE - PAINT
SQUARE - POLY PREFORM (GROUND IN)
PAVEMENT MESSAGE - EPOXY (BIKE SYMBOL WITH BLVD)*
PAVEMENT MESSAGE - PAINT (SHARED LANE MARKING)*
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PAVEMENT MESSAGE - PAINT (BIKE DETECTOR - PAVEMENT MARKING SPECIAL 3)*
PAVEMENT MARKING - EPOXY (SPEED HUMP - PAVEMENT MARKING SPECIAL 4)*
EXISTING PAVEMENT MARKINGS

scale 20 0 40 80 feet

NOTES:
PLACE THE CENTER OF THE BICYCLE DETECTOR PAVEMENT MESSAGE ON TOP OF THE VISIBLE "PUCK-LIKE" SENSOR THAT IS CLOSEST TO THE CURB AND LOCATED AT THE STOP BAR.

BIKE DETECTOR PAVEMENT MESSAGE ENLARGED FOR VIEWING. SEE PAVEMENT MARKING DETAIL SHEETS FOR DIMENSIONS.

NOTE: MOUNT EACH D-228 SIGN TO THE SIGNAL MAST ARM AS INDICATED.

- SPECIFIC NOTES:
- ① FURNISH & INSTALL
 - ② REMOVE
 - ③ SALVAGE & REINSTALL

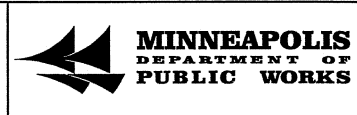
NOTE: TYPE C & D SIGNS WILL BE F&I BY THE CITY OF MINNEAPOLIS.

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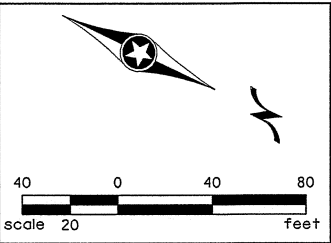
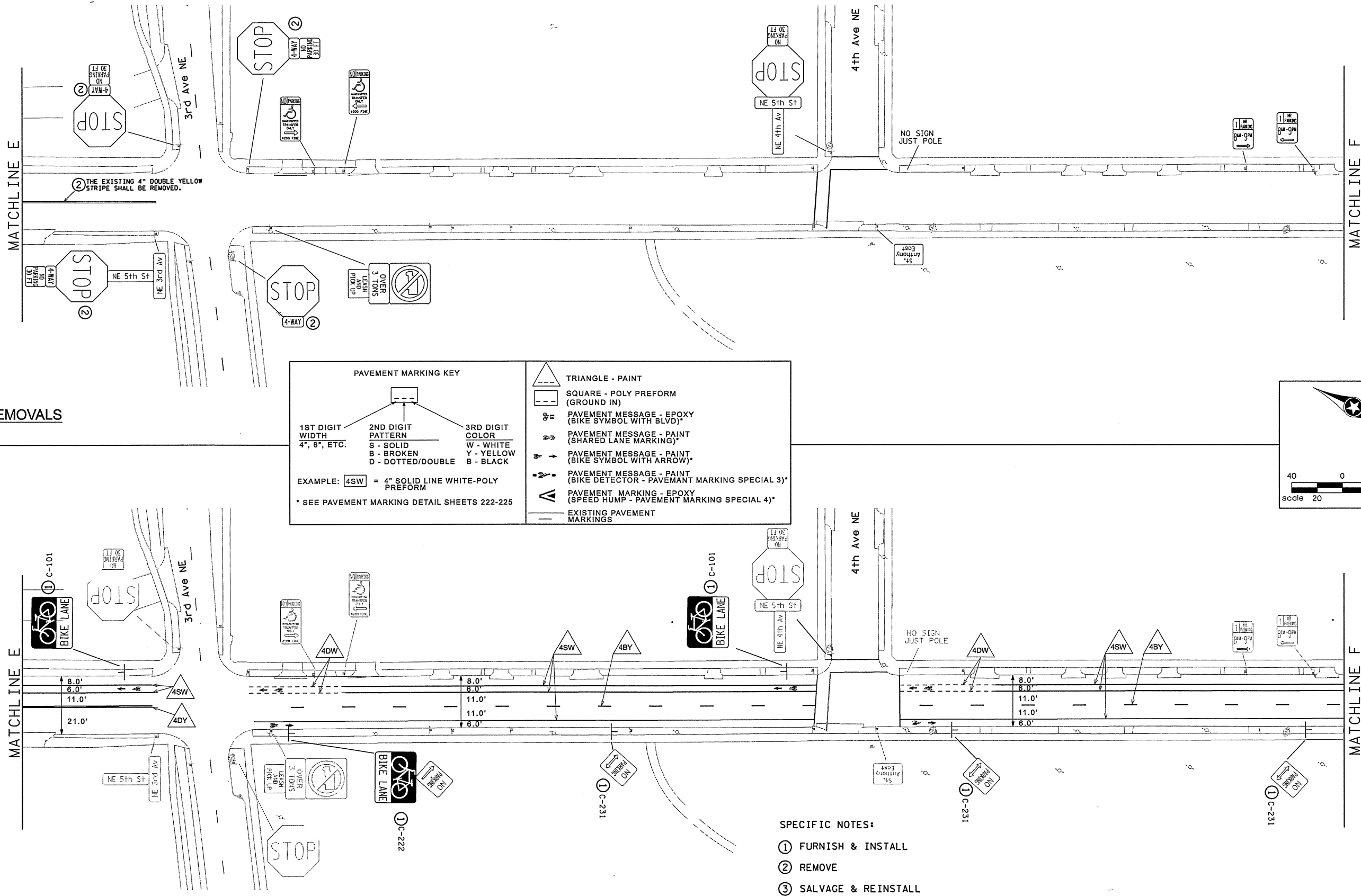
S.P. 141-091-020

5TH STREET NORTHEAST SIGNING AND PAVEMENT MARKING PLAN BIKE LANE IMPROVEMENTS	FILE NO. 109-0032	178
	5 OF 17	259

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EXISTING AND REMOVALS

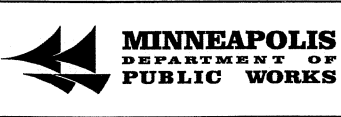
PROPOSED



NOTE: TYPE C & D SIGNS WILL BE F&I BY THE CITY OF MINNEAPOLIS.

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NO.	BY	DATE	REVISIONS

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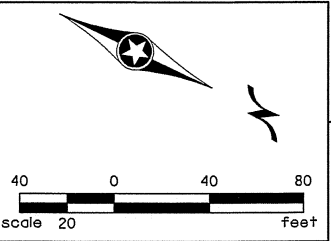
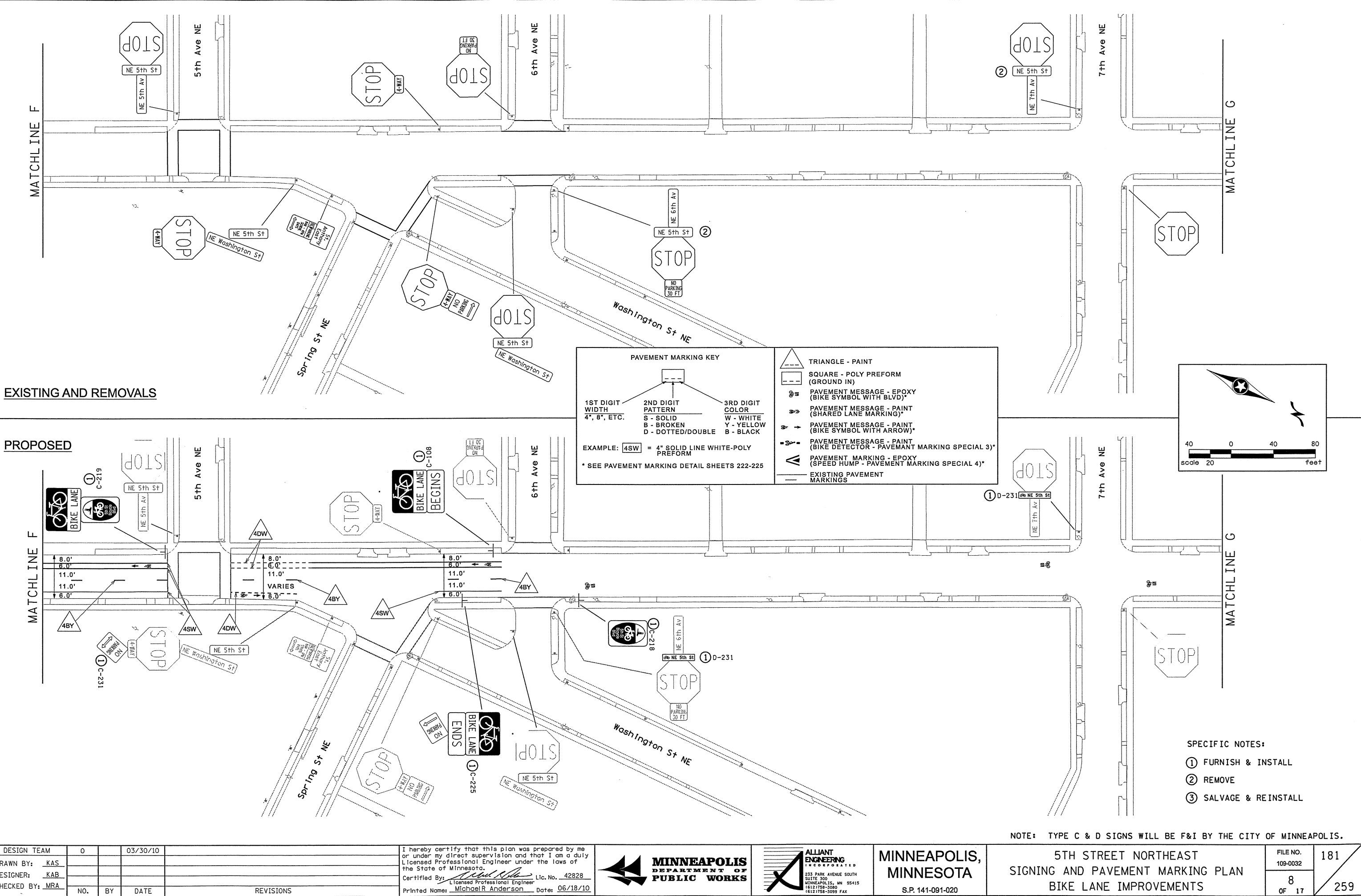
MINNEAPOLIS,
MINNESOTA
S.P. 141-091-020

5TH STREET NORTHEAST
SIGNING AND PAVEMENT MARKING PLAN
BIKE LANE IMPROVEMENTS

FILE NO. 109-0032	180
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EXISTING AND REMOVALS

PROPOSED



- SPECIFIC NOTES:
- ① FURNISH & INSTALL
 - ② REMOVE
 - ③ SALVAGE & REINSTALL

NOTE: TYPE C & D SIGNS WILL BE F&I BY THE CITY OF MINNEAPOLIS.

DESIGN TEAM	O	03/30/10	
DRAWN BY: KAS			
DESIGNER: KAB			
CHECKED BY: MRA			
NO.	BY	DATE	REVISIONS

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Certified By: *Michael R. Anderson* Lic. No. 42828
Printed Name: Michael R. Anderson Date: 06/18/10



MINNEAPOLIS,
MINNESOTA
S.P. 141-091-020

5TH STREET NORTHEAST
SIGNING AND PAVEMENT MARKING PLAN
BIKE LANE IMPROVEMENTS

FILE NO. 109-0032	181
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MATCHLINE G

MATCHLINE G

PROPOSED

EXISTING AND REMOVALS

8th Ave NE

9th Ave NE

PAVEMENT MARKING KEY

1ST DIGIT WIDTH 4", 8", ETC.

2ND DIGIT PATTERN S - SOLID B - BROKEN D - DOTTED/DOUBLE

3RD DIGIT COLOR W - WHITE Y - YELLOW B - BLACK

EXAMPLE: 4SW = 4" SOLID LINE WHITE-POLY PREFORM

* SEE PAVEMENT MARKING DETAIL SHEETS 222-225

TRIANGLE - PAINT

SQUARE - POLY PREFORM (GROUND IN)

PAVEMENT MESSAGE - EPOXY (BIKE SYMBOL WITH BLVD)*

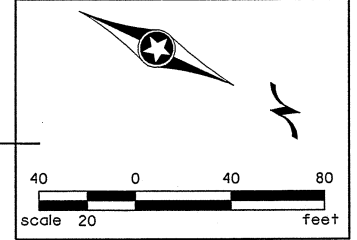
PAVEMENT MESSAGE - PAINT (SHARED LANE MARKING)*

PAVEMENT MESSAGE - PAINT (BIKE SYMBOL WITH ARROW)*

PAVEMENT MESSAGE - PAINT (BIKE DETECTOR - PAVEMENT MARKING SPECIAL 3)*

PAVEMENT MARKING - EPOXY (SPEED HUMP - PAVEMENT MARKING SPECIAL 4)*

EXISTING PAVEMENT MARKINGS



NOTE:
THREE PROPOSED BICYCLE SIGNAL SIGNS (C-243) SHALL BE INSTALLED ON THE SIGNAL SYSTEM IN THE NE, NW AND SW CORNERS OF THE INTERSECTION. THE SIGN IN THE SW CORNER SHALL BE BRACKET MOUNTED BELOW THE BICYCLE SIGNAL HEAD. THE OTHER TWO SIGNS SHALL BE POLE MOUNTED.

- SPECIFIC NOTES:
- ① FURNISH & INSTALL
 - ② REMOVE
 - ③ SALVAGE & REINSTALL

NOTE: TYPE C & D SIGNS WILL BE F&I BY THE CITY OF MINNEAPOLIS.

NOTE:
MOUNT EACH D-234 AND D-235 SIGNS TO THE SIGNAL MAST ARM AS INDICATED.

DESIGN TEAM	0	04/21/10	
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DESIGNER: KAB			
CHECKED BY: MRA			
NO.	BY	DATE	REVISIONS

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Printed Name: Michael R. Anderson Date: 06/18/10



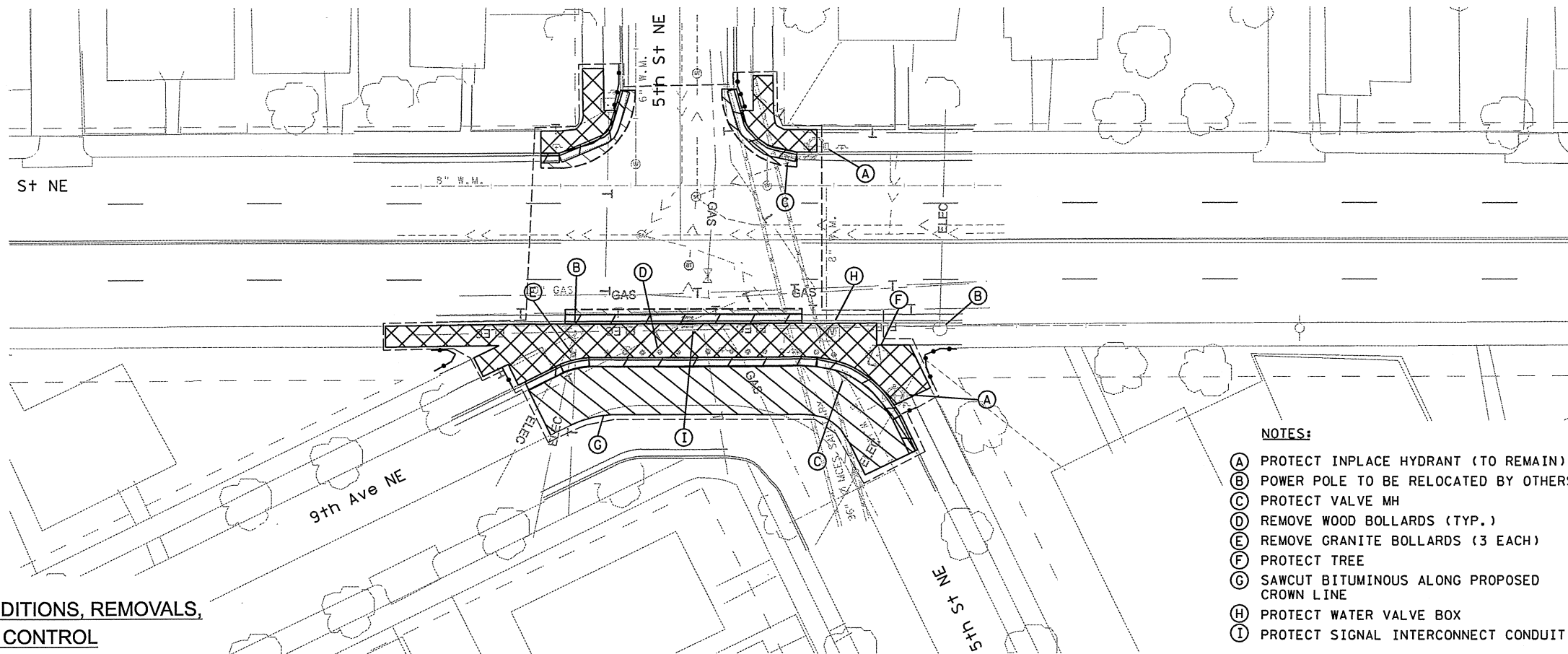
MINNEAPOLIS, MINNESOTA

S.P. 141-091-020

5TH STREET NORTHEAST
SIGNING AND PAVEMENT MARKING PLAN
BIKE LANE IMPROVEMENTS

FILE NO.	109-0032	182
9 OF 17		259

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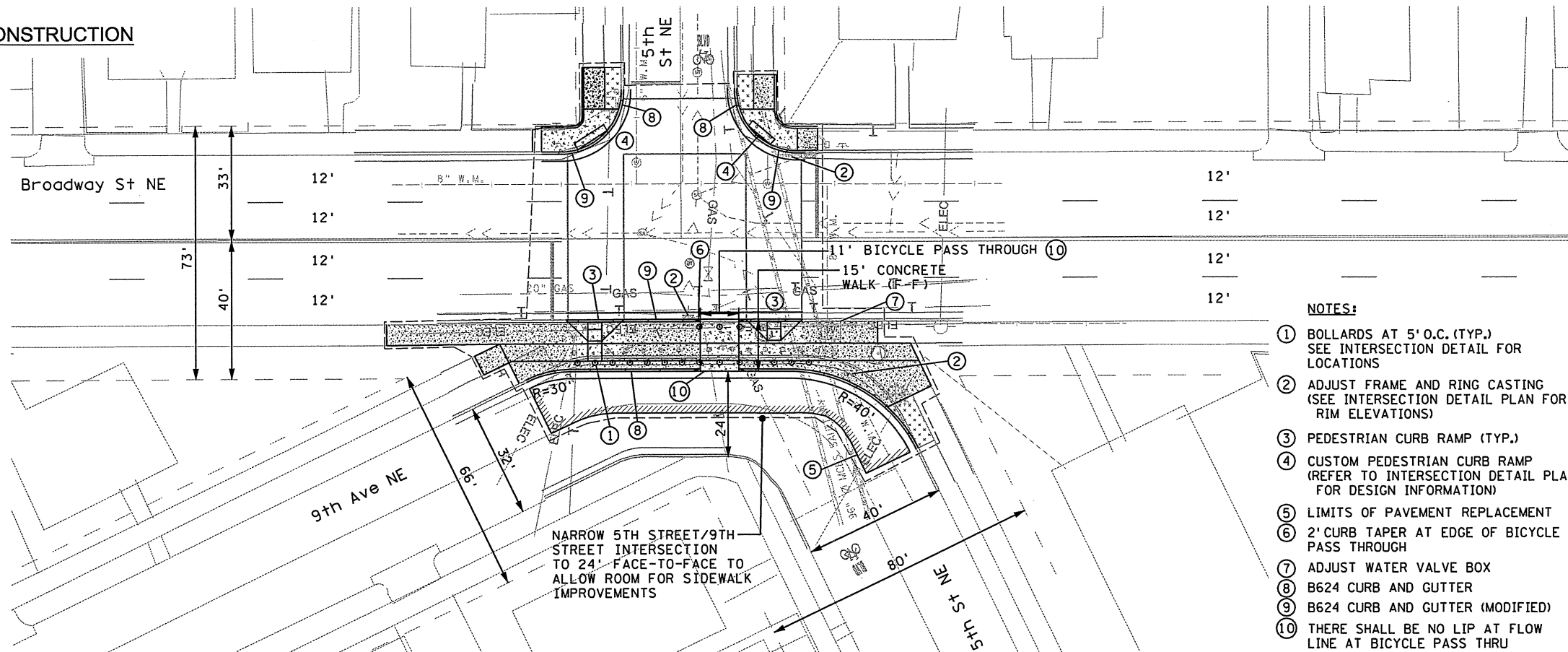


EXISTING CONDITIONS, REMOVALS,
AND EROSION CONTROL

- NOTES:
- (A) PROTECT INPLACE HYDRANT (TO REMAIN)
 - (B) POWER POLE TO BE RELOCATED BY OTHERS
 - (C) PROTECT VALVE MH
 - (D) REMOVE WOOD BOLLARDS (TYP.)
 - (E) REMOVE GRANITE BOLLARDS (3 EACH)
 - (F) PROTECT TREE
 - (G) SAWCUT BITUMINOUS ALONG PROPOSED CROWN LINE
 - (H) PROTECT WATER VALVE BOX
 - (I) PROTECT SIGNAL INTERCONNECT CONDUIT

LEGEND	
	REMOVE CURB AND GUTTER
	REMOVE BITUMINOUS PAVEMENT
	REMOVE CONCRETE PAVEMENT
	REMOVE CONCRETE WALK
	REMOVE CONCRETE DRIVEWAY APRON
	SAWCUT PAVEMENT OR SIDEWALK (FULL DEPTH) (REFER TO PLAN FOR PAVEMENT/SURFACE TYPE)
	SILT FENCE
	INLET PROTECTION
	CONSTRUCTION LIMITS
	RIGHT OF WAY

PROPOSED CONSTRUCTION

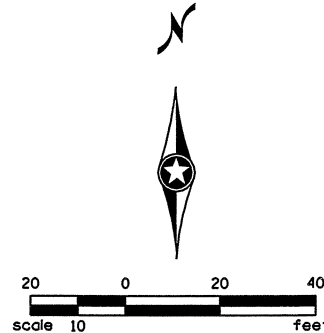


- NOTES:
- (1) BOLLARDS AT 5' O.C. (TYP.) SEE INTERSECTION DETAIL FOR LOCATIONS
 - (2) ADJUST FRAME AND RING CASTING (SEE INTERSECTION DETAIL PLAN FOR RIM ELEVATIONS)
 - (3) PEDESTRIAN CURB RAMP (TYP.)
 - (4) CUSTOM PEDESTRIAN CURB RAMP (REFER TO INTERSECTION DETAIL PLAN FOR DESIGN INFORMATION)
 - (5) LIMITS OF PAVEMENT REPLACEMENT
 - (6) 2' CURB TAPER AT EDGE OF BICYCLE PASS THROUGH
 - (7) ADJUST WATER VALVE BOX
 - (8) B624 CURB AND GUTTER
 - (9) B624 CURB AND GUTTER (MODIFIED)
 - (10) THERE SHALL BE NO LIP AT FLOW LINE AT BICYCLE PASS THRU

LEGEND	
	CURB AND GUTTER (SEE PLAN FOR TYPE)
	3.5" CONCRETE WALK
	6" CONCRETE WALK
	CONCRETE PAVEMENT (DRIVEWAY)
	SOD - TYPE SALT RESISTANT

REFER TO SIGNING AND
PAVEMENT MARKING PLAN
FOR ADDITIONAL INFORMATION

GENERAL NOTES:
ALL DIMENSIONS TO FACE OF CURB UNLESS OTHERWISE NOTED



DESIGN TEAM			
DRAWN BY:			
DESIGNER:			
CHECKED BY:			
NO.	BY	DATE	REVISIONS

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Certified By: *Steve Weser* Lic. No. 40545
Printed Name: Steve Weser Date: 06/18/10



MINNEAPOLIS,
MINNESOTA
S.P. 141-091-020

EXISTING CONDITIONS, REMOVALS, EROSION
CONTROL, AND CONSTRUCTION PLANS
BROADWAY ST NE AT 5TH ST NE

FILE NO. 109-0032	39
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EXISTING AND REMOVALS

PROPOSED

PAVEMENT MARKING KEY

1ST DIGIT
WIDTH
4", 8", ETC.

2ND DIGIT
PATTERN
S - SOLID
B - BROKEN
D - DOTTED/DOUBLE

3RD DIGIT
COLOR
W - WHITE
Y - YELLOW
B - BLACK

EXAMPLE: 4SW = 4" SOLID LINE WHITE-POLY PREFORM

* SEE PAVEMENT MARKING DETAIL SHEETS 222-225

TRIANGLE - PAINT

SQUARE - POLY PREFORM (GROUND IN)

PAVEMENT MESSAGE - EPOXY (BIKE SYMBOL WITH BLVD)*

PAVEMENT MESSAGE - PAINT (SHARED LANE MARKING)*

PAVEMENT MESSAGE - PAINT (BIKE SYMBOL WITH ARROW)*

PAVEMENT MESSAGE - PAINT (BIKE DETECTOR - PAVEMENT MARKING SPECIAL 3)*

PAVEMENT MARKING - EPOXY (SPEED HUMP - PAVEMENT MARKING SPECIAL 4)*

EXISTING PAVEMENT MARKINGS

SPECIFIC NOTES:

- ① FURNISH & INSTALL
- ② REMOVE
- ③ SALVAGE & REINSTALL

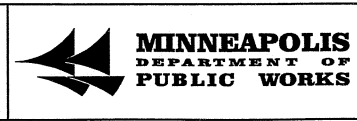
NOTE: TYPE C & D SIGNS WILL BE F&I BY THE CITY OF MINNEAPOLIS.

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MINNEAPOLIS, MINNESOTA

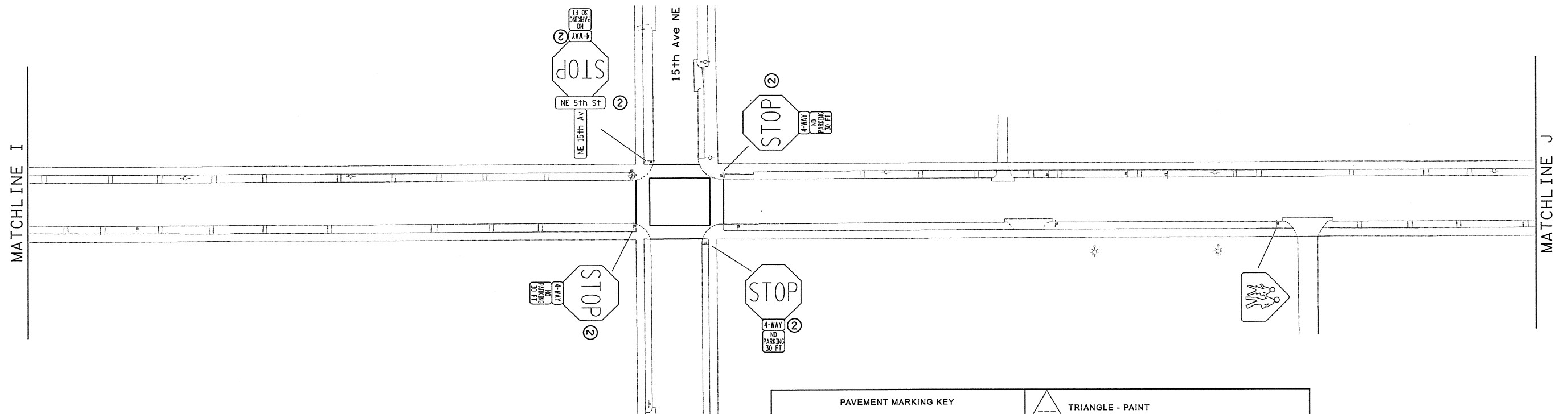
S.P. 141-091-020

5TH STREET NORTHEAST

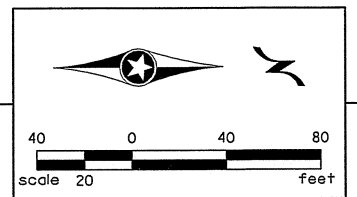
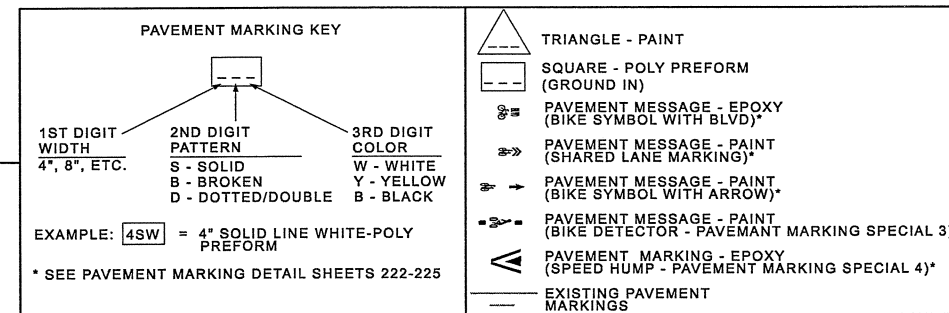
SIGNING AND PAVEMENT MARKING PLAN

BIKE LANE IMPROVEMENTS

FILE NO.	109-0032	183
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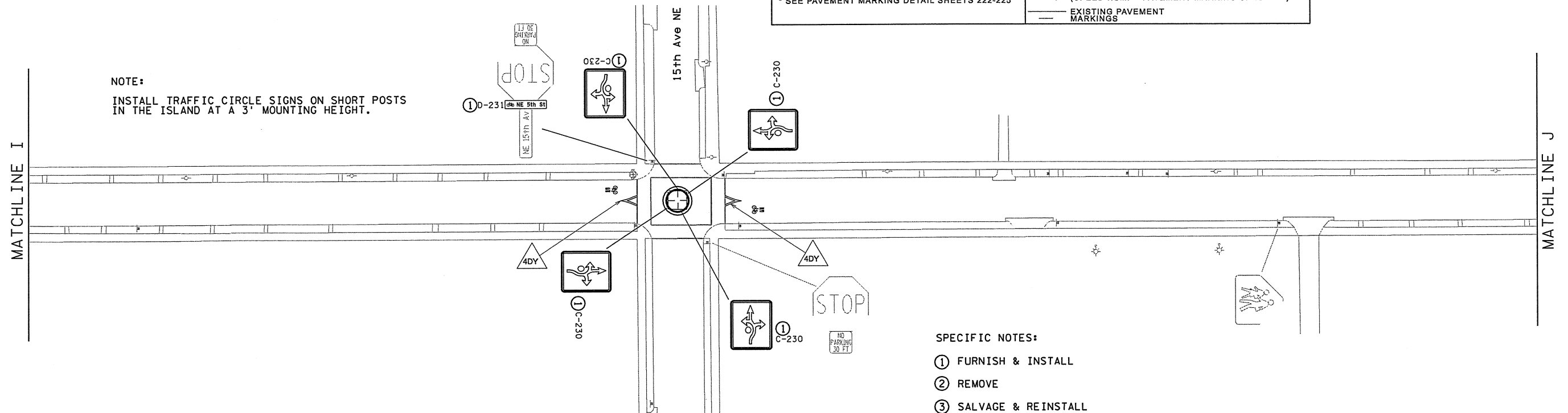
EXISTING AND REMOVALS



PROPOSED

NOTE:

INSTALL TRAFFIC CIRCLE SIGNS ON SHORT POSTS
IN THE ISLAND AT A 3' MOUNTING HEIGHT.




- SPECIFIC NOTES:**
- ① FURNISH & INSTALL
 - ② REMOVE
 - ③ SALVAGE & REINSTALL

NOTE: TYPE C & D SIGNS WILL BE F&I BY THE CITY OF MINNEAPOLIS.

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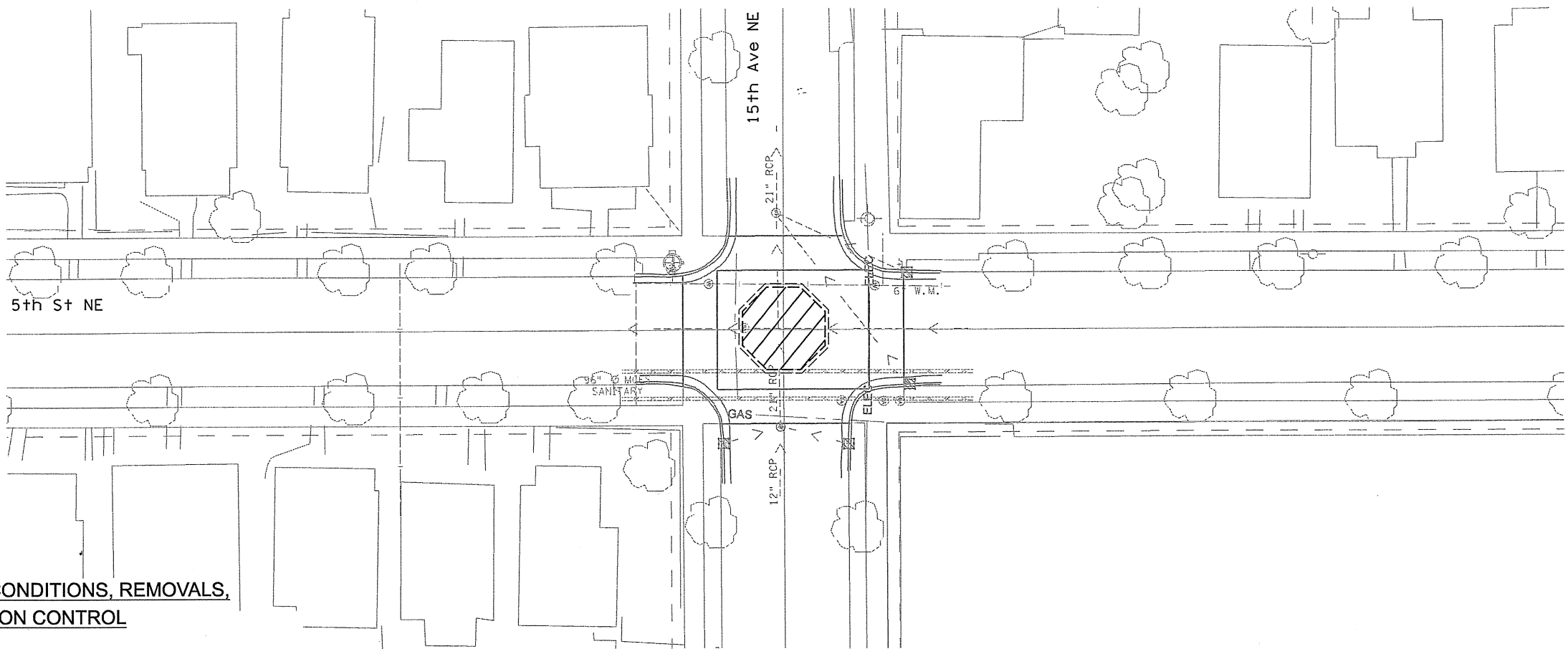
Printed Name: Michael R. Anderson Date: 06/18/10



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MINNESOTA**
S.P. 141-091-020

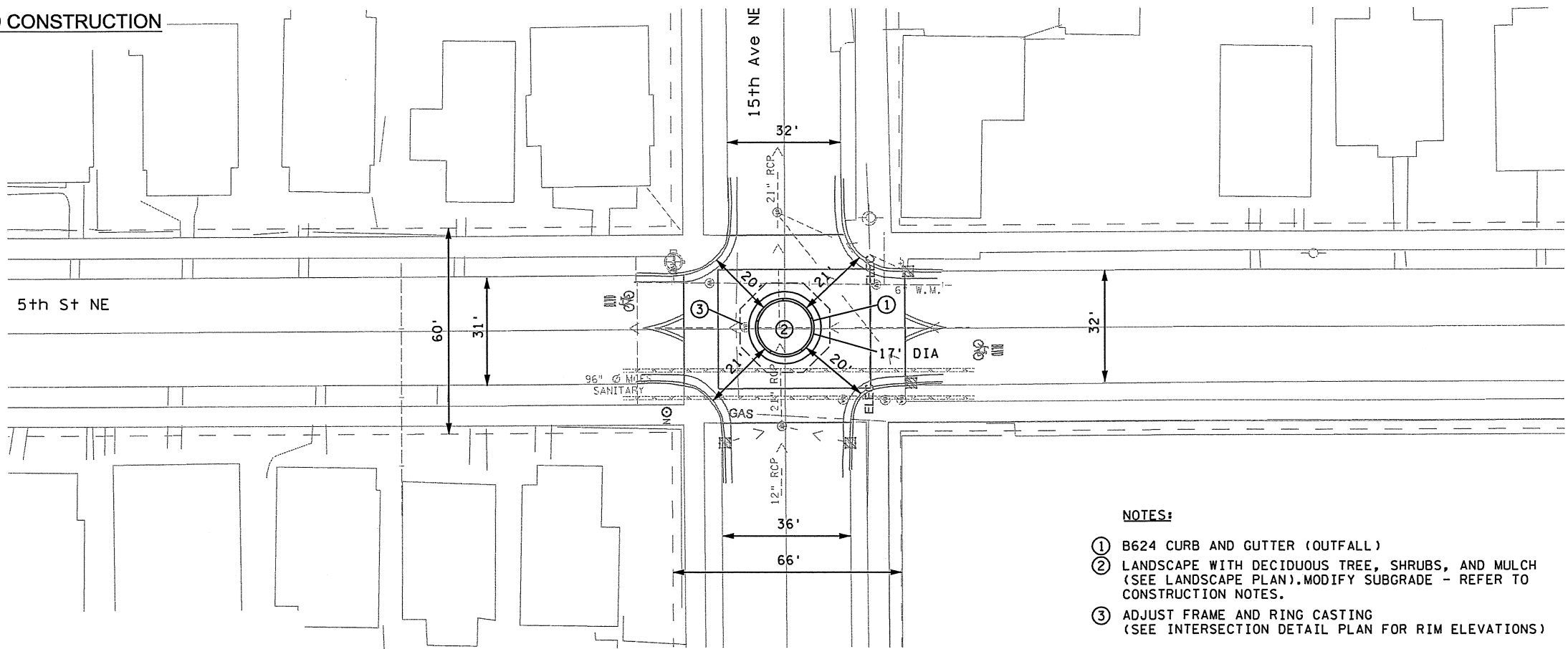
5TH STREET NORTHEAST
SIGNING AND PAVEMENT MARKING PLAN
BIKE LANE IMPROVEMENTS

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EXISTING CONDITIONS, REMOVALS,
AND EROSION CONTROL

LEGEND	
	REMOVE CURB AND GUTTER
	REMOVE BITUMINOUS PAVEMENT
	REMOVE CONCRETE PAVEMENT
	REMOVE CONCRETE WALK
	REMOVE CONCRETE DRIVEWAY APRON
	SAWCUT PAVEMENT OR SIDEWALK (FULL DEPTH) (REFER TO PLAN FOR PAVEMENT/ SURFACE TYPE)
	SILT FENCE
	INLET PROTECTION
	CONSTRUCTION LIMITS
	RIGHT OF WAY



PROPOSED CONSTRUCTION

LEGEND	
	CURB AND GUTTER (SEE PLAN FOR TYPE)
	3.5" CONCRETE WALK
	6" CONCRETE WALK
	CONCRETE PAVEMENT (DRIVEWAY)
	SOD - TYPE SALT RESISTANT

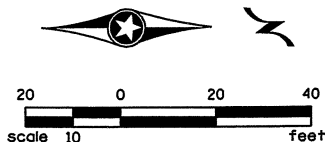
REFER TO SIGNING AND
PAVEMENT MARKING PLAN
FOR ADDITIONAL INFORMATION

GENERAL NOTES:

ALL DIMENSIONS TO FACE OF CURB UNLESS
OTHERWISE NOTED

NOTES:

- 1 B624 CURB AND GUTTER (OUTFALL)
- 2 LANDSCAPE WITH DECIDUOUS TREE, SHRUBS, AND MULCH (SEE LANDSCAPE PLAN). MODIFY SUBGRADE - REFER TO CONSTRUCTION NOTES.
- 3 ADJUST FRAME AND RING CASTING (SEE INTERSECTION DETAIL PLAN FOR RIM ELEVATIONS)



DESIGN TEAM			
DRAWN BY:			
DESIGNER:			
CHECKED BY:			
NO.	BY	DATE	REVISIONS

I hereby certify that this plan was prepared by me
or under my direct supervision and that I am a duly
Licensed Professional Engineer under the laws of
the State of Minnesota.
Certified By: Lic. No. 40545
Printed Name: Steve Weser Date: 06/18/10



MINNEAPOLIS,
MINNESOTA
S.P. 141-091-020

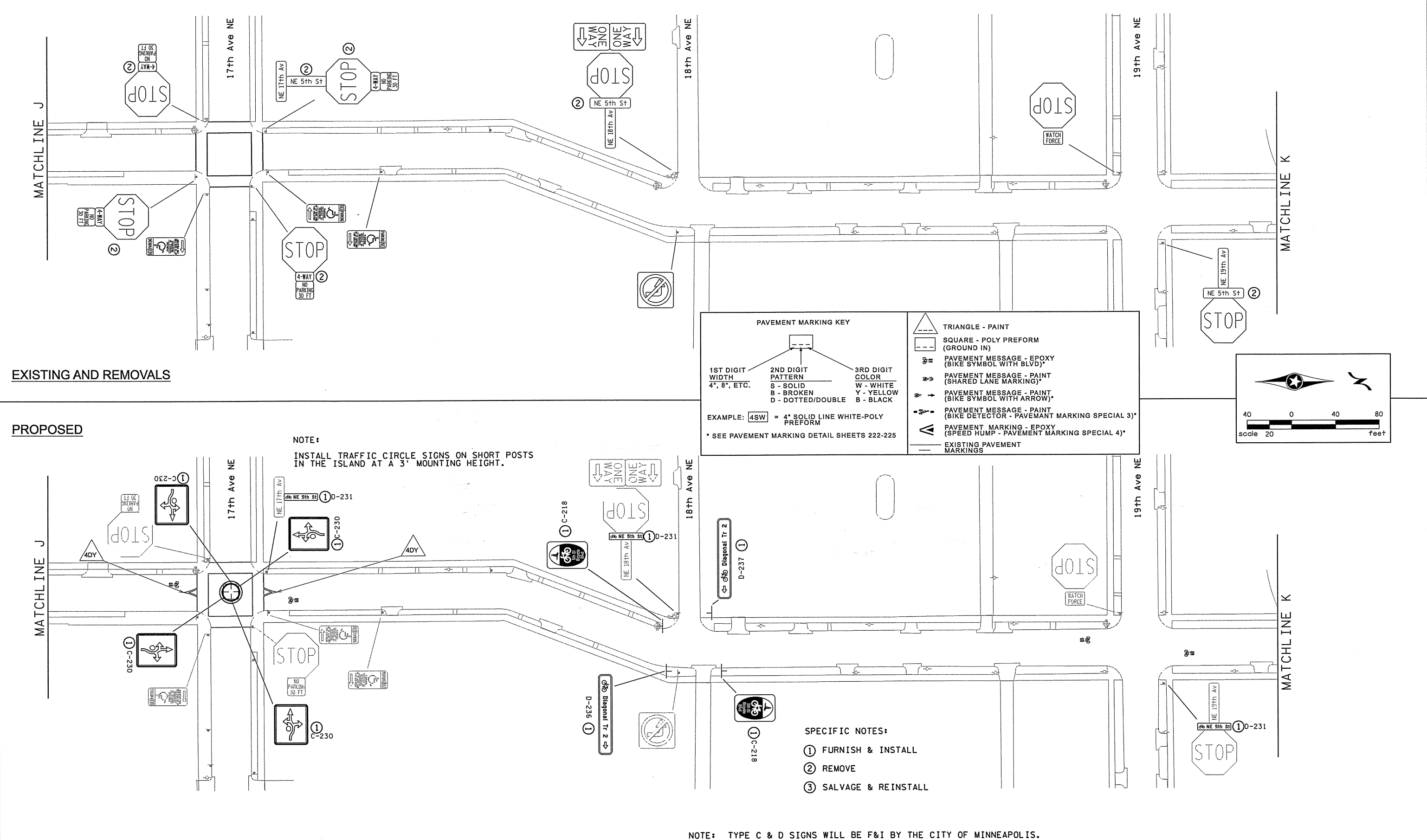
EXISTING CONDITIONS, REMOVALS, EROSION
CONTROL, AND CONSTRUCTION PLANS
5TH ST NE AT 15TH AVE NE

FILE NO. 109-0032	40
7 OF 15	259

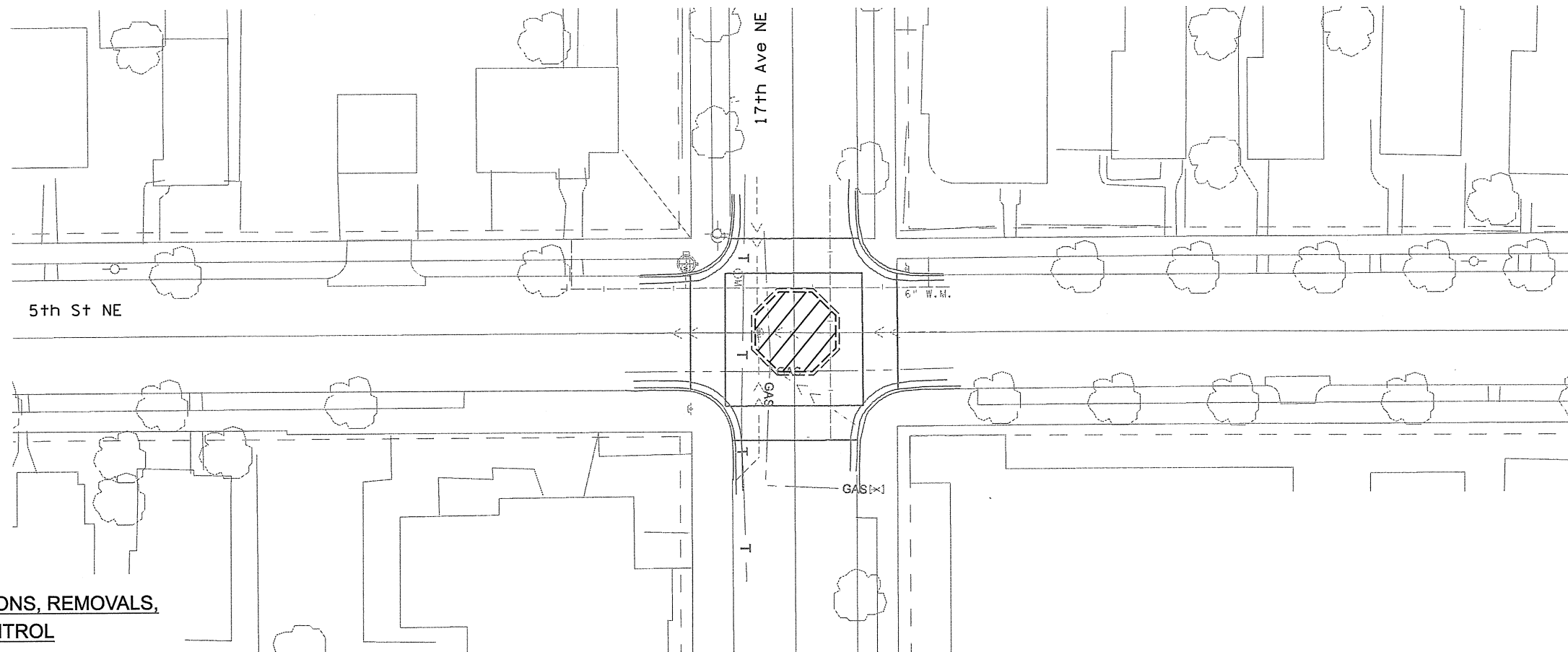
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EXISTING AND REMOVALS

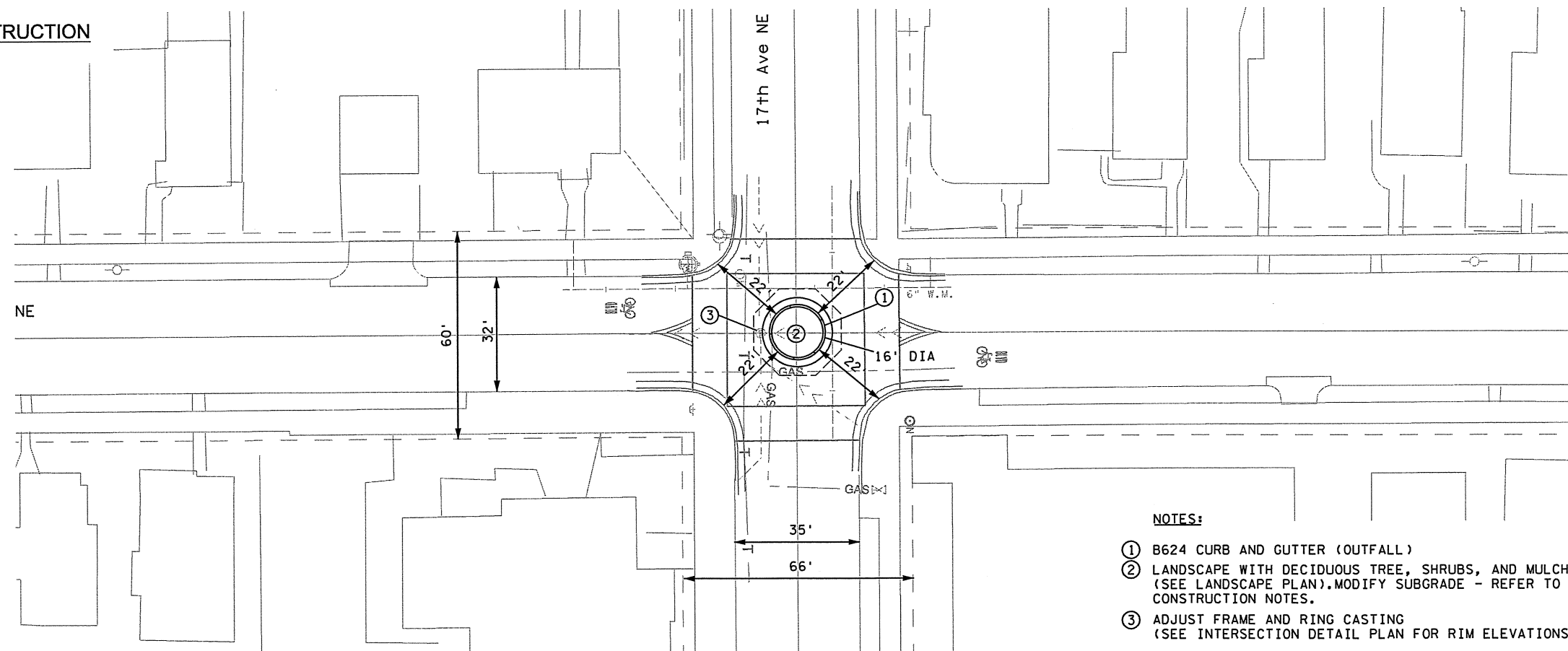
PROPOSED



DESIGN TEAM	0	03/30/10		I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.			MINNEAPOLIS, MINNESOTA S.P. 141-091-020	5TH STREET NORTHEAST SIGNING AND PAVEMENT MARKING PLAN BIKE LANE IMPROVEMENTS	FILE NO. 109-0032 12 OF 17	185 259
DRAWN BY: KAS				Certified By: Lic. No. 42828 Printed Name: Michael R. Anderson Date: 06/18/10						
DESIGNER: KAB										
CHECKED BY: MRA										
NO.	BY	DATE	REVISIONS							



EXISTING CONDITIONS, REMOVALS, AND EROSION CONTROL



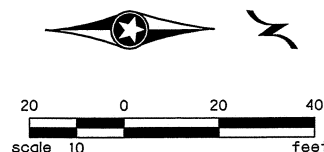
PROPOSED CONSTRUCTION

- NOTES:**
- ① B624 CURB AND GUTTER (OUTFALL)
 - ② LANDSCAPE WITH DECIDUOUS TREE, SHRUBS, AND MULCH (SEE LANDSCAPE PLAN), MODIFY SUBGRADE - REFER TO CONSTRUCTION NOTES.
 - ③ ADJUST FRAME AND RING CASTING (SEE INTERSECTION DETAIL PLAN FOR RIM ELEVATIONS)

REFER TO SIGNING AND
PAVEMENT MARKING PLAN
FOR ADDITIONAL INFORMATION

GENERAL NOTES:

ALL DIMENSIONS TO FACE OF CURB UNLESS
OTHERWISE NOTED



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DESIGNER: _____				
CHECKED BY: _____	NO.	BY	DATE	REVISIONS

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Certified By: Steve Weser Lic. No. 40545
Licensed Professional Engineer

Printed Name: Steve Weser Date: 06/18/10



**MINNEAPOLIS,
MINNESOTA**

EXISTING CONDITIONS, REMOVALS, EROSION
CONTROL, AND CONSTRUCTION PLANS
5TH ST NE AT 17TH AVE NE

FILE NO. 09-0032	41
8 OF 15	259

EXISTING AND REMOVALS

PROPOSED

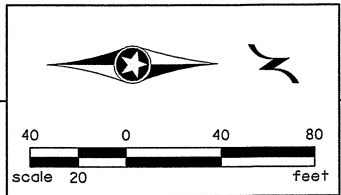
PAVEMENT MARKING KEY

1ST DIGIT WIDTH 4", 8", ETC.	2ND DIGIT PATTERN S - SOLID B - BROKEN D - DOTTED/DOUBLE	3RD DIGIT COLOR W - WHITE Y - YELLOW B - BLACK
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EXAMPLE: 4SW = 4" SOLID LINE WHITE-POLY PREFORM

* SEE PAVEMENT MARKING DETAIL SHEETS 222-225

TRIANGLE - PAINT	PAVEMENT MESSAGE - EPOXY (BIKE SYMBOL WITH BLVD)*
SQUARE - POLY PREFORM (GROUND IN)	PAVEMENT MESSAGE - PAINT (SHARED LANE MARKING)*
PAVEMENT MESSAGE - PAINT (BIKE SYMBOL WITH ARROW)*	PAVEMENT MESSAGE - PAINT (BIKE DETECTOR - PAVEMENT MARKING SPECIAL 3)*
PAVEMENT MARKING - EPOXY (SPEED HUMP - PAVEMENT MARKING SPECIAL 4)*	EXISTING PAVEMENT MARKINGS



- SPECIFIC NOTES:
- ① FURNISH & INSTALL
 - ② REMOVE
 - ③ SALVAGE & REINSTALL

NOTE: TYPE C & D SIGNS WILL BE F&I BY THE CITY OF MINNEAPOLIS.

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DESIGNER: KAB			
CHECKED BY: MRA			
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Certified By: *Michael R. Anderson* Lic. No. 42828

Printed Name: Michael R. Anderson Date: 06/18/10

MINNEAPOLIS
DEPARTMENT OF
PUBLIC WORKS

ALLIANT
ENGINEERING
INCORPORATED

233 PARK AVENUE SOUTH
SUITE 300
MINNEAPOLIS, MN 55415
612.275.3080
612.275.3099 FAX

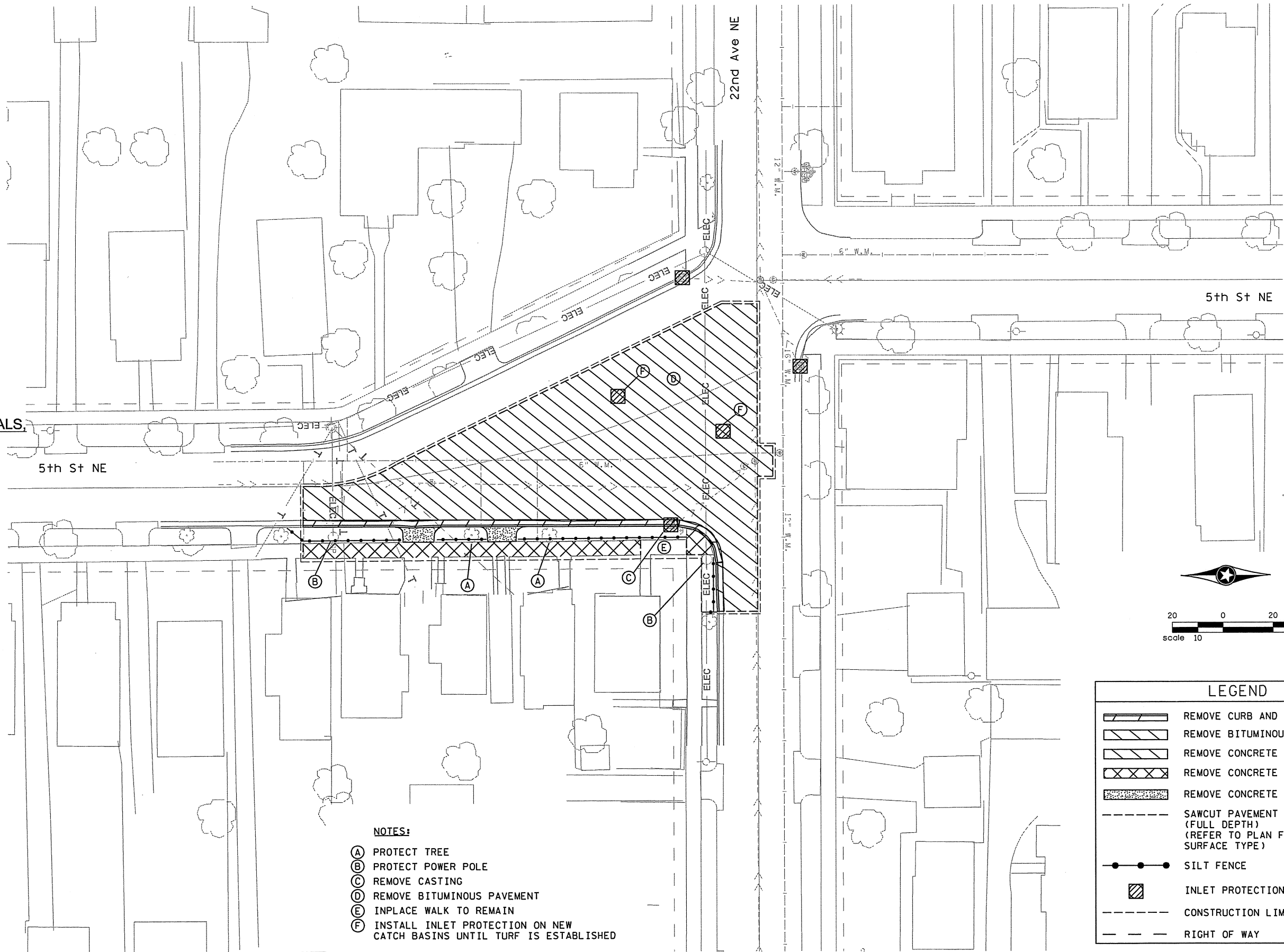
MINNEAPOLIS, MINNESOTA

S.P. 141-091-020

5TH STREET NORTHEAST
SIGNING AND PAVEMENT MARKING PLAN
BIKE LANE IMPROVEMENTS

FILE NO.	186
109-0032	
13 OF 17	259

EXISTING CONDITIONS, REMOVALS,
AND EROSION CONTROL



NOTES:

- (A) PROTECT TREE
- (B) PROTECT POWER POLE
- (C) REMOVE CASTING
- (D) REMOVE BITUMINOUS PAVEMENT
- (E) INPLACE WALK TO REMAIN
- (F) INSTALL INLET PROTECTION ON NEW CATCH BASINS UNTIL TURF IS ESTABLISHED

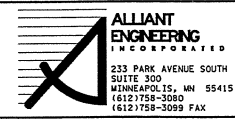
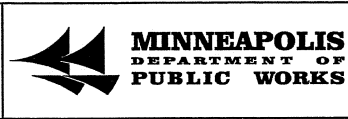
LEGEND

- REMOVE CURB AND GUTTER
- REMOVE BITUMINOUS PAVEMENT
- REMOVE CONCRETE PAVEMENT
- REMOVE CONCRETE WALK
- REMOVE CONCRETE DRIVEWAY APRON
- SAWCUT PAVEMENT OR SIDEWALK (FULL DEPTH) (REFER TO PLAN FOR PAVEMENT/SURFACE TYPE)
- SILT FENCE
- INLET PROTECTION
- CONSTRUCTION LIMITS
- RIGHT OF WAY

DESIGN TEAM			
DRAWN BY:			
DESIGNER:			
CHECKED BY:			
NO.	BY	DATE	REVISIONS

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Certified By: Lic. No. 40545
Printed Name: Steve Weser Date: 06/18/10



MINNEAPOLIS,
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S.P. 141-091-020

EXISTING CONDITIONS, REMOVALS,
AND EROSION CONTROL
5TH ST NE AT 22ND AVE NE

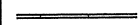

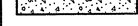

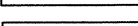
FILE NO. 109-0032	42
9 OF 15	259

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LEGEND

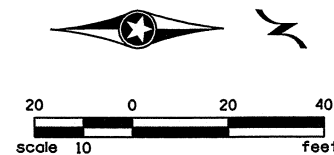
	CURB AND GUTTER (SEE PLAN FOR TYPE)
	3.5" CONCRETE WALK
	6" CONCRETE WALK
	CONCRETE PAVEMENT (DRIVEWAY)
	SOD - TYPE SALT RESISTANT

REFER TO SIGNING AND
PAVEMENT MARKING PLAN
FOR ADDITIONAL INFORMATION

GENERAL NOTES:

ALL DIMENSIONS TO FACE OF CURB UNLESS
OTHERWISE NOTED

PROPOSED CONSTRUCTION



NOTE:
PIPE IN PIPE SEWER
(TWO CHAMBER SEWER)
IN THIS AREA

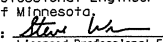
PROPOSED CENTERLINE
(CROWN LINE)

RECONSTRUCT EAST SIDE OF
STREET TO CREATE CROWN
AND DRAIN TO EAST
(REMOVE PAVEMENT)

NOTES:

- 1 CONCRETE DRIVEWAY APRON (12' WIDE) WITH 5' RADII
- 2 EXTEND DRIVEWAY TO BACK OF WALK (MATCH EXISTING WIDTH)
- 3 EXTEND CARRIAGE WALK TO BACK OF WALK
MATCH EXISTING WIDTH (3' MINIMUM)
- 4 BITUMINOUS PAVEMENT
(SEE TYPICAL SECTION SHEET 10)
- 5 PEDESTRIAN CURB RAMP
- 6 B624 CURB AND GUTTER
- 7 CONSTRUCT CATCH BASIN 5 (30" Ø)
- 8 CONSTRUCT CB/MH 6 (30" Ø)
- 9 INSTALL NEW CASTING
MINNEAPOLIS STANDARD PLATE SEWR-5005
(SLOTTED DRAIN)
- 10 CONSTRUCT STORM SEWER (10" Ø PVC SDR 26)
- 11 CONNECT TO EXISTING MH 7 (BRICK STRUCTURE)
- 12 RESTORE WITH 4" TOPSOIL AND SOD (GRANULAR FILL AS
NEEDED TO BRING UP TO GRADE)
- 13 POTENTIAL FUTURE LANDSCAPE AREA OR RAIN GARDEN
- 14 LOWER BACK OF WALK TO PROVIDE OVERFLOW ROUTE
- 15 ADJUST FRAME AND RING CASTING
(SEE INTERSECTION DETAIL SHEET FOR RIM ELEVATIONS)

DESIGN TEAM				
DRAWN BY:				
DESIGNER:				
CHECKED BY:				
NO.	BY	DATE	REVISIONS	

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MINNESOTA
S.P. 141-091-020

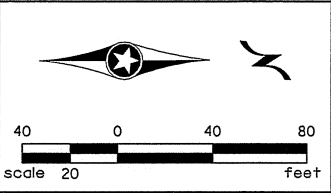
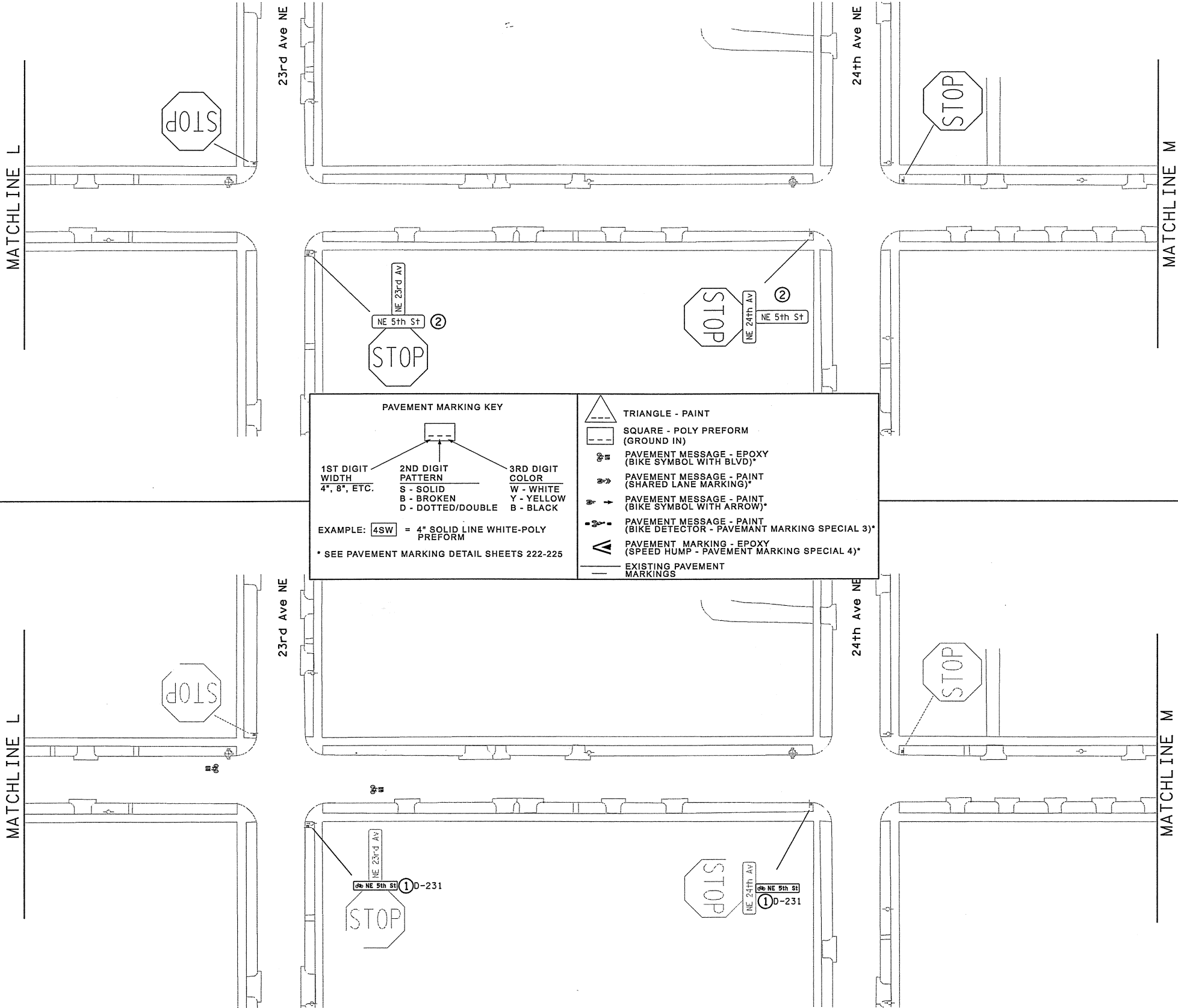
EXISTING CONDITIONS, REMOVALS, EROSION
CONSTRUCTION PLANS
5TH ST NE AT 22ND AVE NE

FILE NO. 109-0032	43
10 OF 15	259

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EXISTING AND REMOVALS

PROPOSED



- SPECIFIC NOTES:
- ① FURNISH & INSTALL
 - ② REMOVE
 - ③ SALVAGE & REINSTALL

NOTE: TYPE C & D SIGNS WILL BE F&I BY THE CITY OF MINNEAPOLIS.

DESIGN TEAM	0	03/30/10	
DRAWN BY: KAS			
DESIGNER: KAB			
CHECKED BY: MRA			
NO.	BY	DATE	REVISIONS

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Certified By: *Michael R. Anderson* Lic. No. 42828

Printed Name: Michael R. Anderson Date: 06/18/10



MINNEAPOLIS,
MINNESOTA

S.P. 141-091-020

5TH STREET NORTHEAST
SIGNING AND PAVEMENT MARKING PLAN
BIKE LANE IMPROVEMENTS

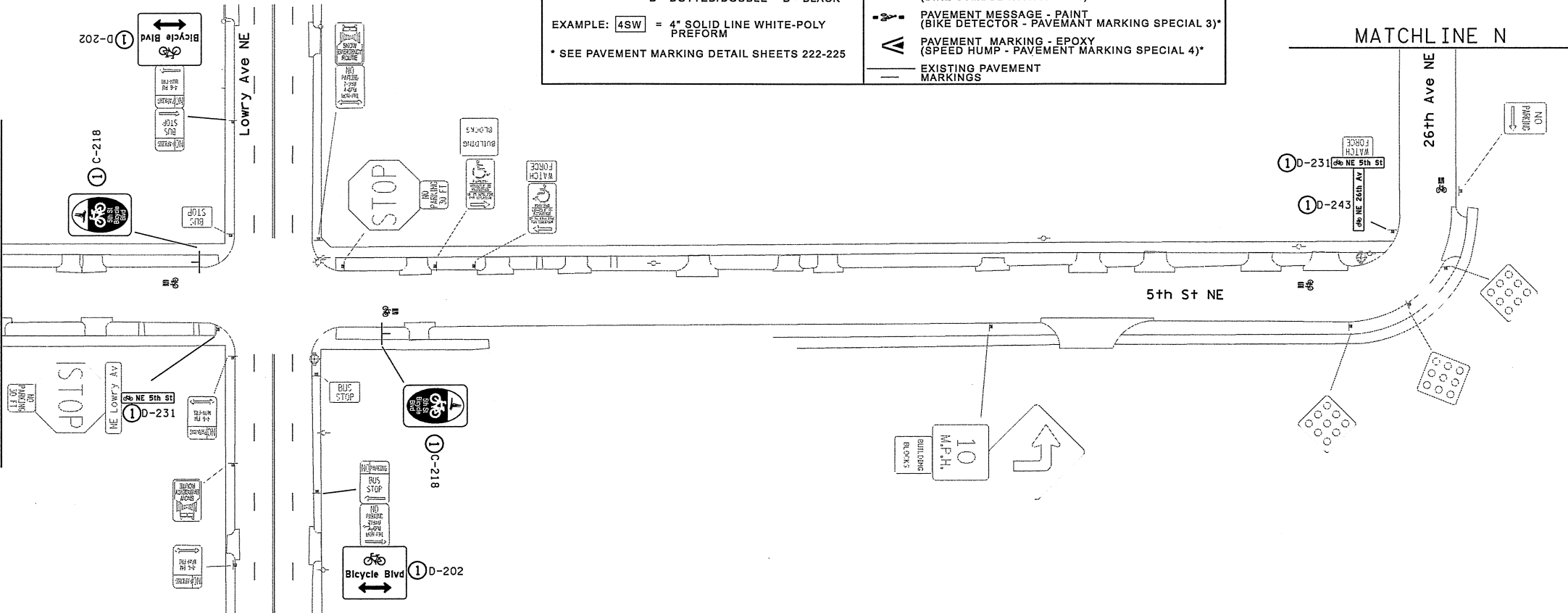
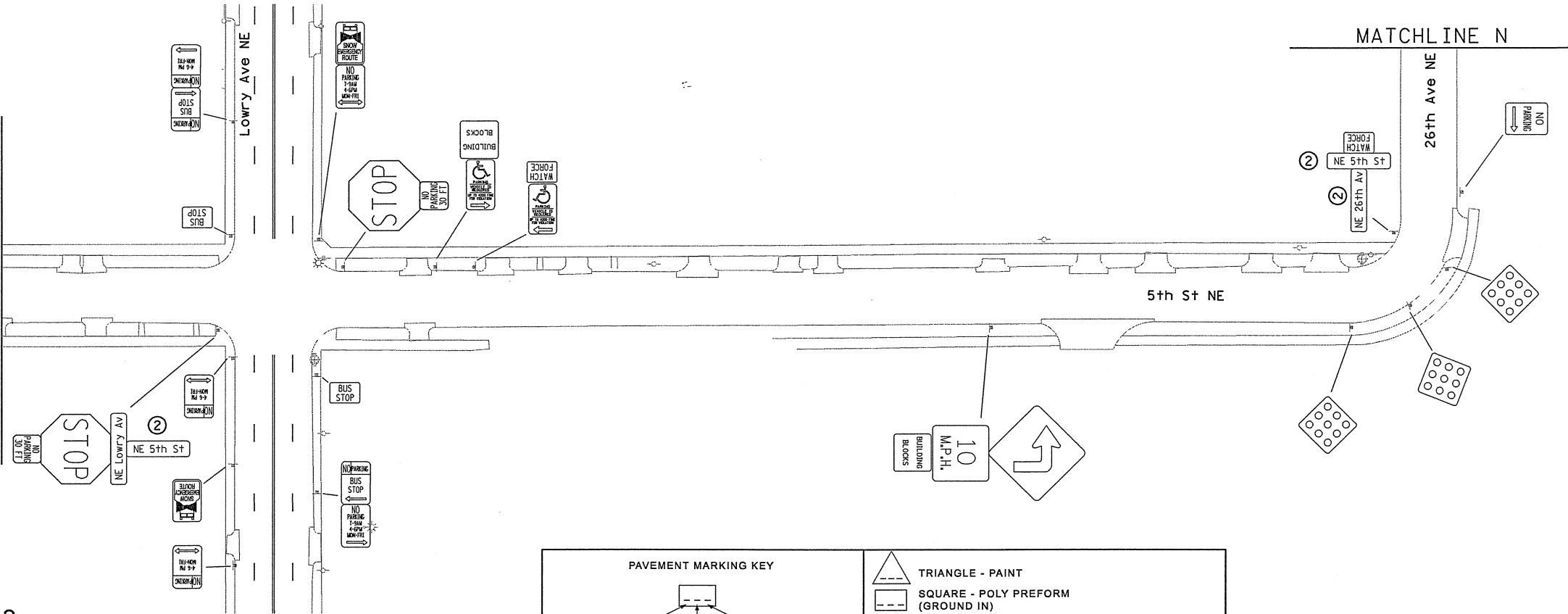
FILE NO. 109-0032	187
14 OF 17	259

EXISTING AND REMOVALS

PROPOSED

MATCHLINE M

MATCHLINE M



PAVEMENT MARKING KEY		
1ST DIGIT WIDTH 4", 8", ETC.	2ND DIGIT PATTERN S - SOLID B - BROKEN D - DOTTED/DOUBLE	3RD DIGIT COLOR W - WHITE Y - YELLOW B - BLACK
EXAMPLE: 4SW = 4" SOLID LINE WHITE-POLY PREFORM		
* SEE PAVEMENT MARKING DETAIL SHEETS 222-225		
<div><div>TRIANGLE - PAINT</div><div>SQUARE - POLY PREFORM (GROUND IN)</div><div>PAVEMENT MESSAGE - EPOXY (BIKE SYMBOL WITH BLVD)*</div><div>PAVEMENT MESSAGE - PAINT (SHARED LANE MARKING)*</div><div>PAVEMENT MESSAGE - PAINT (BIKE SYMBOL WITH ARROW)*</div><div>PAVEMENT MESSAGE - PAINT (BIKE DETECTOR - PAVEMENT MARKING SPECIAL 3)*</div><div>PAVEMENT MARKING - EPOXY (SPEED HUMP - PAVEMENT MARKING SPECIAL 4)*</div><div>EXISTING PAVEMENT MARKINGS</div></div>		

SPECIFIC NOTES:

- 1 FURNISH & INSTALL
- 2 REMOVE
- 3 SALVAGE & REINSTALL

NOTE: TYPE C & D SIGNS WILL BE F&I BY THE CITY OF MINNEAPOLIS.

DESIGN TEAM	0	03/30/10	
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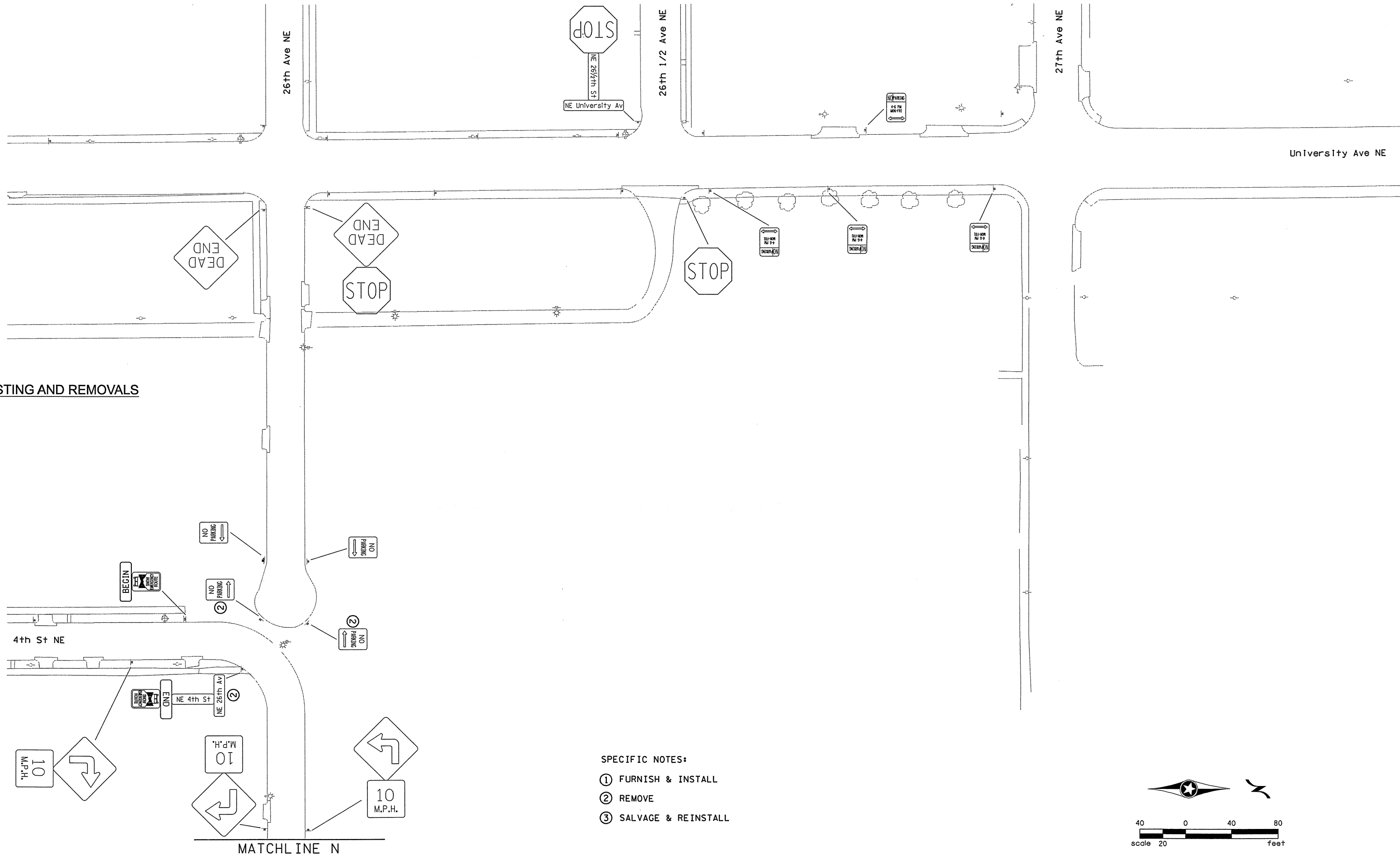
MINNEAPOLIS,
MINNESOTA
S.P. 141-091-020

5TH STREET NORTHEAST
SIGNING AND PAVEMENT MARKING PLAN
BIKE LANE IMPROVEMENTS

FILE NO. 109-0032	188
15 OF 17	259

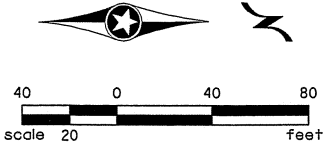
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EXISTING AND REMOVALS



- SPECIFIC NOTES:
- ① FURNISH & INSTALL
 - ② REMOVE
 - ③ SALVAGE & REINSTALL

NOTE: TYPE C & D SIGNS WILL BE F&I BY THE CITY OF MINNEAPOLIS.



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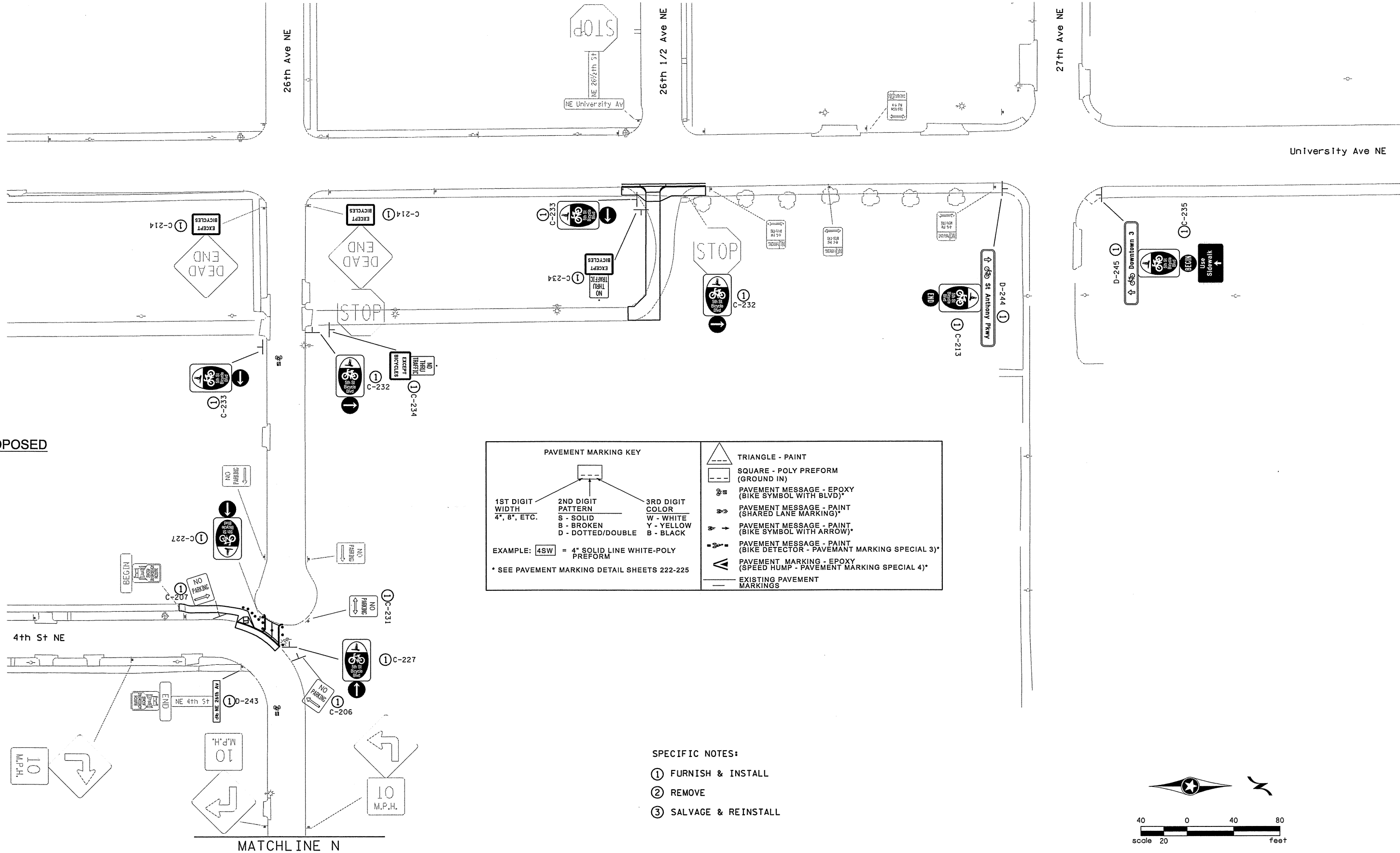


MINNEAPOLIS, MINNESOTA
S.P. 141-091-020

5TH STREET NORTHEAST
SIGNING AND PAVEMENT MARKING PLAN
BIKE LANE IMPROVEMENTS

FILE NO. 109-0032	189
16 OF 17	259

PROPOSED



PAVEMENT MARKING KEY

1ST DIGIT WIDTH 4", 8", ETC.	2ND DIGIT PATTERN	3RD DIGIT COLOR
4	S - SOLID	W - WHITE
8	B - BROKEN	Y - YELLOW
D	D - DOTTED/DOUBLE	B - BLACK

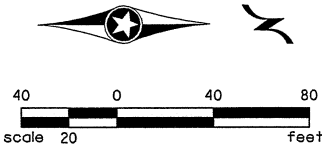
EXAMPLE: 4SW = 4" SOLID LINE WHITE-POLY PREFORM

* SEE PAVEMENT MARKING DETAIL SHEETS 222-225

	TRIANGLE - PAINT
	SQUARE - POLY PREFORM (GROUND IN)
	PAVEMENT MESSAGE - EPOXY (BIKE SYMBOL WITH BLVD)*
	PAVEMENT MESSAGE - PAINT (SHARED LANE MARKING)*
	PAVEMENT MESSAGE - PAINT (BIKE SYMBOL WITH ARROW)*
	PAVEMENT MESSAGE - PAINT (BIKE DETECTOR - PAVEMENT MARKING SPECIAL 3)*
	PAVEMENT MARKING - EPOXY (SPEED HUMP - PAVEMENT MARKING SPECIAL 4)*
	EXISTING PAVEMENT MARKINGS

- SPECIFIC NOTES:**
- ① FURNISH & INSTALL
 - ② REMOVE
 - ③ SALVAGE & REINSTALL

NOTE: TYPE C & D SIGNS WILL BE F&I BY THE CITY OF MINNEAPOLIS.



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DESIGNER: KAB			
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MINNEAPOLIS,
MINNESOTA

S.P. 141-091-020

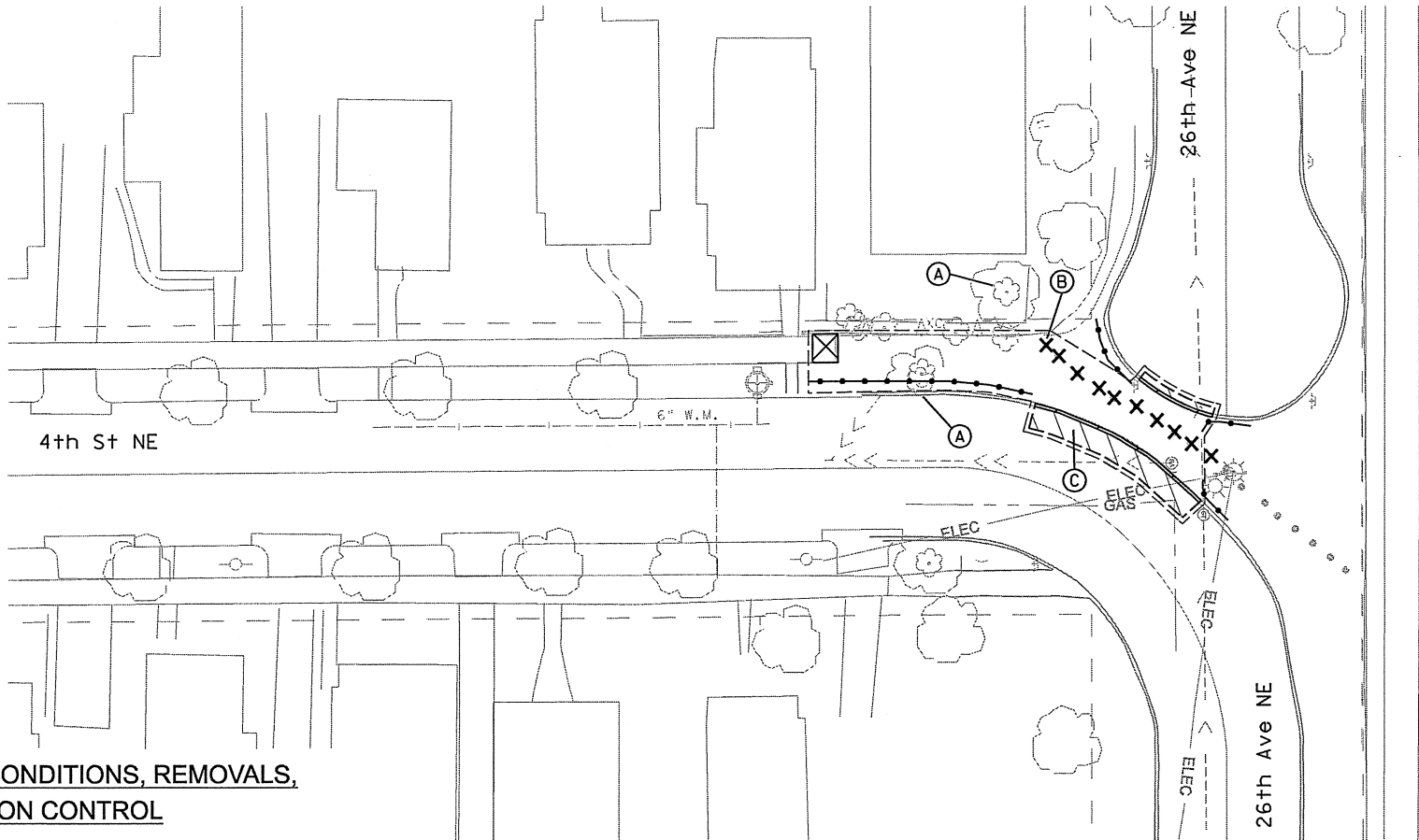
5TH STREET NORTHEAST
SIGNING AND PAVEMENT MARKING PLAN
BIKE LANE IMPROVEMENTS

FILE NO. 109-0032	190
17 OF 17	259

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EXISTING CONDITIONS, REMOVALS,
AND EROSION CONTROL

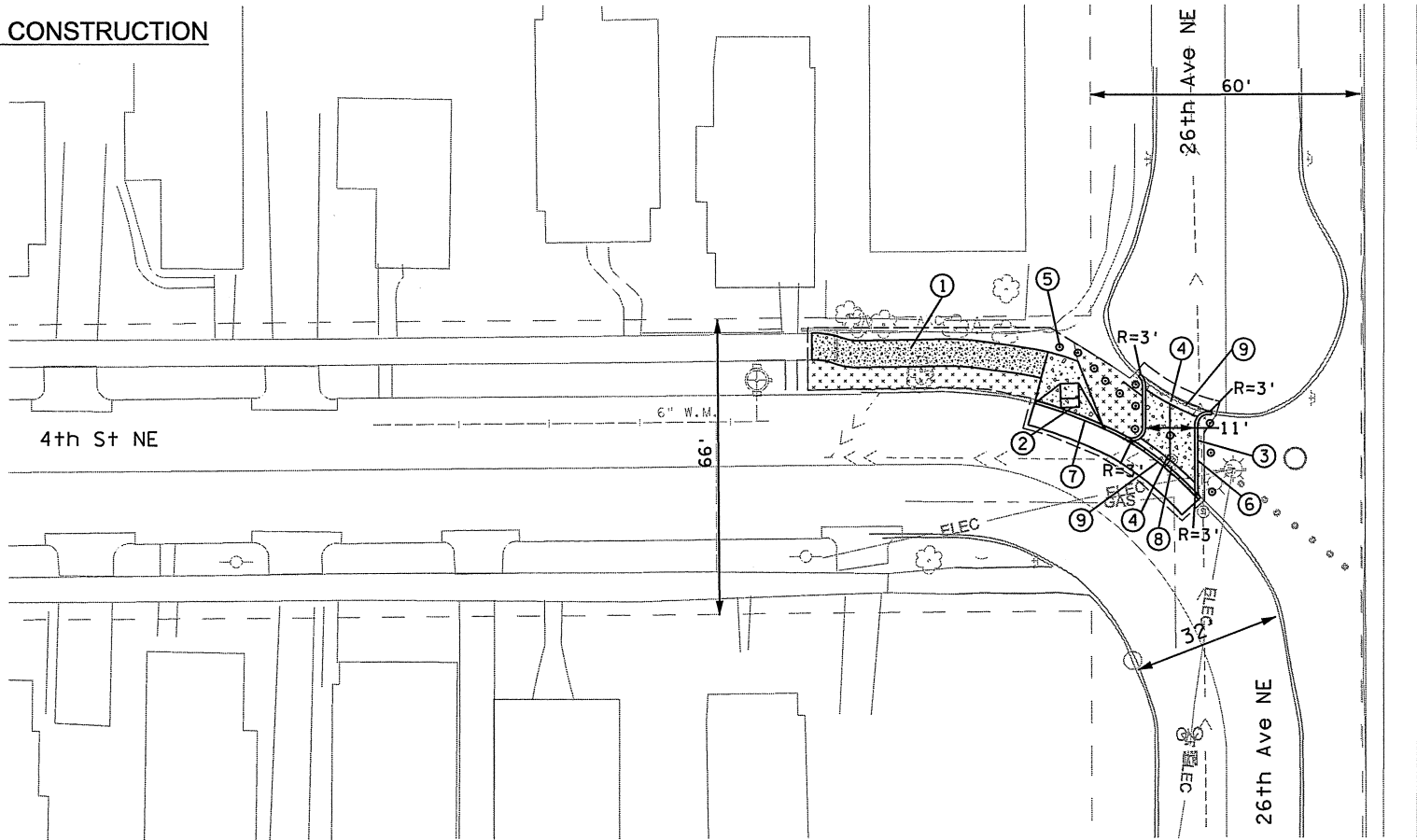


LEGEND	
	REMOVE CURB AND GUTTER
	REMOVE BITUMINOUS PAVEMENT
	REMOVE CONCRETE PAVEMENT
	REMOVE CONCRETE WALK
	REMOVE CONCRETE DRIVEWAY APRON
	SAWCUT PAVEMENT OR SIDEWALK (FULL DEPTH) (REFER TO PLAN FOR PAVEMENT/SURFACE TYPE)
	SILT FENCE
	INLET PROTECTION
	CONSTRUCTION LIMITS
	RIGHT OF WAY

NOTES:

- (A) PROTECT TREES, INCLUDING ROOT SYSTEMS
(B) REMOVE BOLLARDS (TYP.)
(C) REMOVE B660 CURB AND GUTTER. GUTTER WIDTH IN EXCESS OF 24" WIDTH IS PAID FOR AS REMOVE CONCRETE PAVEMENT.

PROPOSED CONSTRUCTION



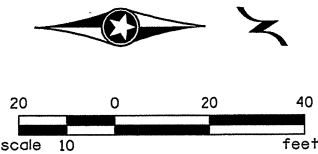
LEGEND	
	CURB AND GUTTER (SEE PLAN FOR TYPE)
	3.5" CONCRETE WALK
	6" CONCRETE WALK
	CONCRETE PAVEMENT (DRIVEWAY)
	SOD - TYPE SALT RESISTANT

GENERAL NOTES:

ALL DIMENSIONS TO FACE OF CURB UNLESS OTHERWISE NOTED

NOTES:

- (1) CONSTRUCT CONCRETE SIDEWALK (6' WIDE)
(2) PEDESTRIAN CURB RAMP
(3) CONSTRUCT CONCRETE BICYCLE PASS THRU (11' FACE TO FACE)
(4) INSTALL 6" BOLLARD IN CENTER AND AT EDGE OF BICYCLE PASS THRU (TYP.)
(5) FURNISH & INSTALL 6" BOLLARDS (TYP.)
(6) B660 CURB AND GUTTER (MODIFIED) (SEE DETAIL SHEET 10)
(7) B660 CURB AND GUTTER
(8) ADJUST FRAME AND RING CASTING (SEE INTERSECTION DETAIL PLAN FOR RIM ELEVATIONS)
(9) THERE SHALL BE NO LIP AT FLOW LINE AT BICYCLE PASS THRU



DESIGN TEAM			
DRAWN BY:			
DESIGNER:			
CHECKED BY:			
NO.	BY	DATE	REVISIONS

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Printed Name: Steve Weser Date: 06/18/10

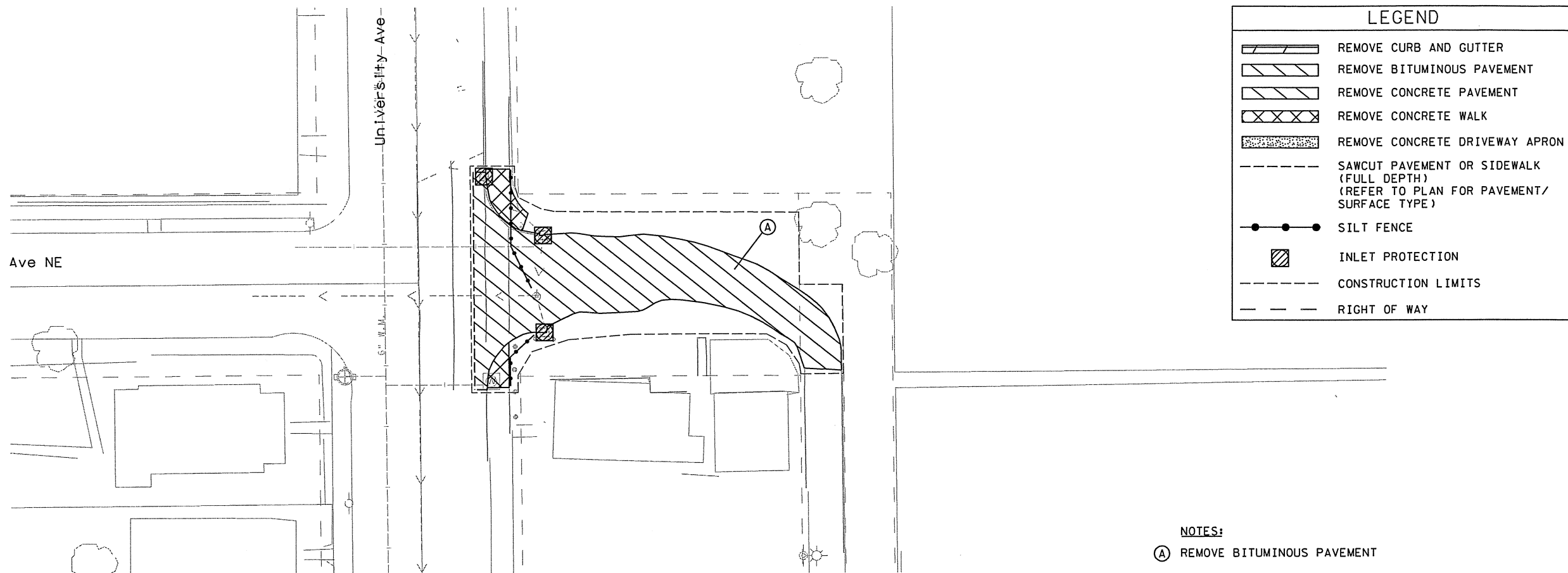
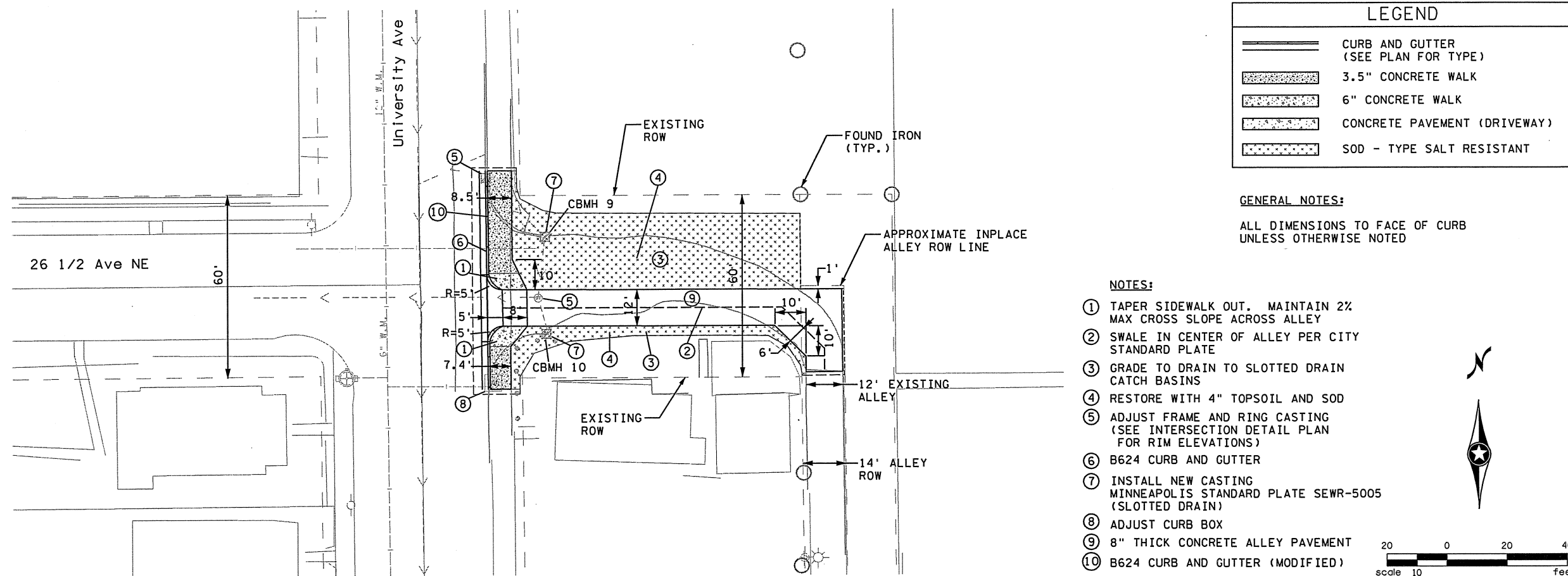


MINNEAPOLIS,
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S.P. 141-091-020

EXISTING CONDITIONS, REMOVALS, EROSION
CONTROL, AND CONSTRUCTION PLANS
26TH AVE NE AT 4TH ST NE

FILE NO. 109-0032	44
11 OF 15	259

6/17/2010 X:\2009\090032\DESIGN\SHEETS\cd090032.op11.dgn

**EXISTING CONDITIONS, REMOVALS,
AND EROSION CONTROL****PROPOSED CONSTRUCTION**

DESIGN TEAM			
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DESIGNER:			
CHECKED BY:			
NO.	BY	DATE	REVISIONS

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Certified By: *Steve Weser* Lic. No. 40545
Printed Name: Steve Weser Date: 06/18/10



**MINNEAPOLIS,
MINNESOTA**

S.P. 141-091-020

**EXISTING CONDITIONS, REMOVALS, EROSION
CONTROL, AND CONSTRUCTION PLANS
ALLEY AT UNIVERSITY AVE NE**

FILE NO.
109-0032

12
OF 15

45
259